ABOUT TUTORIAL HISTORY USEFULLINKS DOWNLOAD



SAGExplore web server tutorial for Module II: Genome Mapping

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### II.- Genome Mapping Module:

This module allows the user to map experimental tags against the genome.

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							Genome Mapping
Map your TAC	Gs within a G	enome					
This section allo	ws to find TAGs	within a Genome.					
Step 1 Organi	ism ?	Step 2 Anchoring-Tag	ging Enzyme Pair	? Step 3 Od	ds ratio for	confidence c	lass assignments ?
Saccharomyces	s cerevisiae 💌	NlaIII - BsmFI 💌		5 🛩			
Step 4 TAG ca	ategories and	genomic mapping conte	xts to display: 🕐				
TAG Class		Genomic Type		TAG Confidence	TAG Locatio	n	Internal Poly-A next ?
O Platinum	🔘 Copper	🗹 Known Protein	🗹 smRNA	🗹 High	🗹 ORF	Exon	🗹 Yes
O Gold	O Iron	🗹 Hypothetical Protein	🗹 tRNA	Low	🗹 3'UTR	Intron	🗹 No
O Silver	O Silicon	🗹 rRNA	🗹 Intergenic A	🗹 Undefined	🗹 S'UTR		
O Aluminum		🗹 snoRNA	🗹 Intergenic B				
		💌 snRNA	🗹 Intergenic C				
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*I.- Genome Mapping Module Form:* The user must follow five sequential steps in this form. Online help with the relevant details is provided for each step.

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								Genome Mapping
	Map your TA	Gs within a G	lenome					
2	This section allo	ws to find TAGs	within a Genome.					
GENOME EX	Step 1 Organ Saccharomyces	ism <b>?</b> s cerevisiae 💌	Step 2 Anchoring-Tag NlaIII - BsmFI 💌	gging Enzyme Pair	? Step 3 Odd	ds ratio for	confidence c	lass assignments <b>?</b>
	Step 4 TAG ca	ategories and	genomic mapping conte	xts to display: 🕐				
<b>B</b> N	TAG Class		Genomic Type		TAG Confidence	TAG Locatio	n	Internal Poly-A next ?
APP	🔘 Platinum	🚫 Copper	🗹 Known Protein	🗹 smRNA	🗹 High	🗹 ORF	🗹 Exon	🗹 Yes
	🔘 Gold	🔘 Iron	🗹 Hypothetical Protein	🗹 trna	Low	🗹 3'UTR	🗹 Intron	🗹 No
NON	O Silver	🔘 Silicon	🗹 rRNA	🗹 Intergenic A	Undefined	🗹 S'UTR		
5	🔘 Aluminum	All	🗹 snoRNA	🗹 Intergenic B				
u.			🗹 snRNA	🗹 Intergenic C				
RIES MAPPING LIBRARIES EXPL	Step 5 Input Upload text fil OR Fill in TAG	Data ? le Browse	<b></b>					
BRA	Output Display O	ptions ?						
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**Step 1:** The user must select the organism of interest. Currently, only Saccharomyces cerevisiae is available. In the near future, other organisms will be added.

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-								Genome Mapping
Map	your TA	Gs within a G	enome					
This s	section allo	ws to find TAGs	within a Genome.					
Step	1 Organi	ism 🥐	Step 2 Anchoring-Tag	iging Enzyme Pair	? Step 3 Od	ds ratio for	confidence c	lass assignments 🕐
Saco	charomyces	s cerevisiae 💌	NlaIII - BsmFI 💌		5 💌			
Step	TAG ca	ategories and	genomic mapping conte	xts to display: 🕐				
TAG	Class		Genomic Type		TAG Confidence	TAG Locatio	n	Internal Poly-A next ?
OP	latinum	🚫 Copper	🗹 Known Protein	🗹 smRNA	🗹 High	🗹 ORF	🗹 Exon	Ves
00	Gold	🔘 Iron	🗹 Hypothetical Protein	🗹 trna	Low	🗹 3'UTR	🗹 Intron	🗹 No
Os	Silver	O Silicon	🗹 rRNA	🗹 Intergenic A	Undefined	🗹 S'UTR		
O A	luminum	All	🗹 snoRNA	🗹 Intergenic B				
			🗹 snRNA	🗹 Intergenic C				
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			©2	006 SAGExplore, All	rights reserved.	15 01 056		
					<del></del>			

**Step 2:** The user must select the anchoring-tagging enzyme pair used in SAGE. Currently, only the pair NIaIII-BsmFI is available. In the near future, other enzyme pairs such as the one used in Long-SAGE will be added.

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							Genome Mapping
Map your TA	Gs within a G	enome					
This section allo	ws to find TAGs	within a Genome.					
Step 1 Organ	ism ?	Step 2 Anchoring-Tag	iging Enzyme Pair	? Step 3 Od	ds ratio for	confidence c	lass assignments
Saccharomyce	s cerevisiae 💌	NIaIII - BsmFI 💌		5 💌			
Step 4 TAG ca	ategories and	genomic mapping conte	xts to display: 🕐				
TAG Class		Genomic Type		TAG Confidence	TAG Locatio	n	Internal Poly-A next ?
O Platinum	🚫 Copper	🗹 Known Protein	🗹 smRNA	🗹 High	🗹 ORF	Exon	Ves Yes
O Gold	O Iron	🗹 Hypothetical Protein	🗹 trna	Low	🗹 3'UTR	Intron	V No
O Silver	🔘 Silicon	🗹 rRNA	🗹 Intergenic A	🗹 Undefined	S'UTR		
O Aluminum		🗹 snoRNA	🗹 Intergenic B				
-		🔽 snRNA	🗹 Intergenic C				
Step 5 Input	Data 2						
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Output Display O	ptions ?						
Show 50	Sort by	Confidence 💌 🛛	Descending 🔽				ubmit Reset
		Pontificia Unive	rsidad Católica de C	hile   MBL   Terr	ms of Use		
		©2	006 SAGExplore. All	rights reserved.			

**Step 3:** The user must select the odds ratio used to assign the confidence classes to the different genomic tags. For details see: Malig, R., Varela, C., Agosin, E. and Melo, F. (2006) Accurate and unambiguous tag-to-gene mapping in SAGE by a hierarchical gene assignment procedure. *BMC Bioinformatics*, **7**, 487-507.

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-							Genome Mapping
Map your TA	Gs within a G	enome					
This section allo	ws to find TAGs	within a Genome.					
Step 1 Organ	ism <b>?</b> s cerevisiae 💌	Step 2 Anchoring-Ta NlaIII - BsmFI 💌	gging Enzyme Pair	Step 3     Odd       5     ✓	ds ratio for	confidence c	:lass assignments ?
Step 4 TAG ca	ategories and	genomic mapping conte	exts to display: <b>?</b>				
TAG Class		Genomic Type	_	TAG Confidence	TAG Locatio	n	Internal Poly-A next ?
O Platinum	O Copper	Known Protein	SmRNA	High	ORF	Exon	Yes
O Gold	O Iron	Hypothetical Protein	✓ tRNA	Low	J'UTR	Intron	V No
O Silver	O Silicon	rrna	Intergenic A	Undefined	S'UTR		
Aluminum	() All	snoRNA	Intergenic B				
		🗹 snRNA	🗹 Intergenic C				
Step 5 Input Upload text fil	Data ? le Browse						
OR Fill in TAG	list						
Output Display Of Show 50	ptions ? Sort by	Confidence 💌	Descending 💌				ubmit Reset
		Pontificia Univo ©3	ersidad Católica de Cl 2006 SAGExplore, All	nile   MBL   Terr rights reserved.	ns of Use		

**Step 4:** The user can choose to map the experimental tags against a subset of genomic tags upon a large amount of different features. For details see the help links **Or:** Malig, R., Varela, C., Agosin, E. and Melo, F. (2006) Accurate and unambiguous tag-to-gene mapping in SAGE by a hierarchical gene assignment procedure. *BMC Bioinformatics*, **7**, 487-507.

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								Genome Mapping
	Map your TA	Gs within a G	enome					
	This section allo	ws to find TAGs	within a Genome.					
GENOME EX	Step 1 Organ Saccharomyces	ism <b>?</b> s cerevisiae 💌	Step 2 Anchoring-Tag NlaIII - BsmFI 💌	gging Enzyme Pair	? Step 3 Odd	ds ratio for	confidence c	lass assignments <b>?</b>
	Step 4 TAG ca	ategories and	genomic mapping conte	exts to display: 🕐				
SNI	TAG Class		Genomic Type		TAG Confidence	TAG Locatio	n	Internal Poly-A next ?
	🔿 Platinum	🚫 Copper	🗹 Known Protein	🗹 smRNA	III High	🗹 ORF	🗹 Exon	🗹 Yes
	O Gold	O Iron	🗹 Hypothetical Protein	🗹 trna	Low	🗹 3'UTR	🗹 Intron	Vo No
ENO	O Silver	🔘 Silicon	🗹 rRNA	🗹 Intergenic A	🗹 Undefined	🗹 S'UTR		
3	Aluminum		💌 snoRNA	🗹 Intergenic B				
ų			🗹 snRNA	🗹 Intergenic C				
LIBRARIES MAPPING LIBRARIES EXPLO	Step 5 Input Upload text fil OR Fill in TAG Output Display Output	Data ? le list list ptions ? Sort by	Confidence	Descending 💌			<u></u> Si	ubmit Reset
			Pontificia Unive ©2	ersidad Católica de Cl 2006 SAGExplore, All	hile   MBL   Terr rights reserved.	ms of Use		

**Step 5:** The user must provide a list of experimental tags to map against the genome-based annotation of virtual or potential tags. A text file can be uploaded or the data directly pasted into the textarea. The input format is explained in the help link for this step. Full tag sequences must be provided (ie. including the CATG).

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								Genome Mapping
Map yo	our TAG	s within a G	enome					
This sec	tion allow	vs to find TAGs	within a Genome.					
Step 1 Saccha	Organi: iromyces	sm <b>?</b> cerevisiae 💌	Step 2 Anchoring-Tag NlaIII - BsmFI 💌	iging Enzyme Pair	? Step 3 Odd	ds ratio for	confidence c	lass assignments ?
Step 4	TAG ca	tegories and	genomic mapping conte	xts to display: 🕐				
TAG Clas	55		Genomic Type		TAG Confidence	TAG Locatio	n	Internal Poly-A next ?
🔘 Plati	inum	🚫 Copper	🗹 Known Protein	SmRNA	III High	🗹 ORF	Exon	Ves
🔘 Gold	d	🔘 Iron	🗹 Hypothetical Protein	🗹 trna	Low	🗹 3'UTR	🗹 Intron	Vo No
🔿 Silve	er	O Silicon	🗹 rRNA	🗹 Intergenic A	🗹 Undefined	🗹 S'UTR		
O Alun	minum		🗹 snoRNA	🗹 Intergenic B				
			🗹 snRNA	🗹 Intergenic C				
Step 5 Upload OR Fill Output D	Input I I text file in TAG I Display Op 50	Data ? Browse	Confidence	Descending M			s	ubmit Reset
			Pontificia Unive ©2	rsidad Católica de Cl 006 SAGExplore, All	nile   MBL   Tern rights reserved.	ns of Use		

*Pre-submit:* Before submitting the query, the user can choose the number of rows to display per page and also how to sort the results.

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								Genome Mapping
	Map your TA	Gs within a G	enome					
	This section allo	ws to find TAGs	within a Genome.					
	Step 1 Organ Saccharomyces	ism <b>?</b> s cerevisiae 💌	Step 2 Anchoring-Tag NlaIII - BsmFI 💌	iging Enzyme Pair	? Step 3 Odd	ds ratio for	confidence c	lass assignments <b>?</b>
	Step 4 TAG ca	ategories and	genomic mapping conte	xts to display: 🕐				
	TAG Class		Genomic Type		TAG Confidence	TAG Locatio	n	Internal Poly-A next ?
	🔘 Platinum	🚫 Copper	🗹 Known Protein	smRNA	🗹 High	🗹 ORF	Exon	🗹 Yes
	🔘 Gold	O Iron	🗹 Hypothetical Protein	🗹 trna	Low	🗹 3'UTR	🗹 Intron	🗹 No
	O Silver	🔿 Silicon	🗹 rRNA	🗹 Intergenic A	🗹 Undefined	🗹 S'UTR		
5	🔘 Aluminum	All	🗹 snoRNA	🗹 Intergenic B				
			🗹 snRNA	🗹 Intergenic C				
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Submit: The user is ready to submit the query to the server.

															Gei	nome Map	ping
	Ma	p vo	our TAGs within	n a Ge	enome	: R	esults										
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	1	Un	CATGGTCAACAAAG	2	0.807	Si	Int	int,opORF	0	1	43989	+	N.A.	YAL054C	🖹 i 🔠 🎹	340	-
	2	Un	CATGACACCACCAG	3	1.000	Fe	Int	int,opORF	0	1	140213	+	N.A.	YAL005C	i & m	3010	-
	з	Un	CATGGAGGAGATTT	2	1.239	Au	ORF	ORFdu	2	1	141074	+	N.A.	YAL004W	i & 🎞	006	-
j	4	Un	CATGGCGCAGTTGG	5	1.000	Al	ORF	tRNA	1	1	166273	+	N.A.	tA(UGC)A	i & 🏛	340	-
-	5	Un	CATGCTGCATCCTA	4	1.000	Fe	Int	int,opORF	0	1	217023	+	N.A.	YAR060C	i 🔠 🎹	006	-
	6	Un	CATGCAAAAGACTG	4	1,000	Al	ORF	ORFdu	1	1	229005	+	N. A.	YAR075W	i & 🛄	12 0 13	-
	7	Un	CATGCACTTCAACT	20	1.000	Fe	Int	int	0	2	34908	+	N.A.		i 🔠 🎞	1283	-
	8	Un	CATGTACACACACA	2	1,239	Au	UTR3	ORFdu	2	2	119235	+	N.A.	YBL054W	i & 🎞	340	-
	9	Un	C AT GGT AT AT GT GT	2	1.000	Fe	Int	int	0	2	236361	+	N.A.		i 🔠 🏛	603	
	10	Un	CATGGTACAAGGGT	2	0,343	Al	ORF	ORFV	з	2	478284	+	TEF2	YBR118W	i & 🔳	046	-
	11	Un	CATGAGACAAACTG	2	0.402	Al	ORF	ORFv	2	2	478942	+	TEF2	YBR118W	i 🔠 🏛	61 55 193	1.7
	12	Un	CATGGAAATCCGGT	2	0,807	Si	Int	int,opORF	0	2	576616	+	N.A.	YBR170C	i & 🛄	303	-
	13	Un	CATGTAAAAAAAAA	2	1.000	Fe	Int	int	0	2	622839	+	N.A.		i 🔠 🎹	640	
	14	Un	CATGGCGTTTGAGG	2	1,000	Al	UTR3	ORFdu	1	2	635140	+	N.A.	YBR206W	i & 🎹	600	-
	15	Un	CATGCTCTGGTTCT	2	2.667	Al	ORF	ORFdu	з	2	704693	+	N.A.	YBR242W	i & 🎹	340	-
	16	Un	CATGCGTCAGTGTG	9	0,807	Si	Int	int	0	2	812205	+	N.A.		i & 🎹	9 17 0	-
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	18	Un	CATGTCTTCTCGTT	2	1,000	Al	ORF	ORFV	1	4	45892	+	SSB1	YDL229W	i & 🎹	6 12 0	-
	19	Un	CATGTACATACATC	2	1.000	Al	UTR3	ORFV	1	4	99277	+	MRPL11	YDL202W	i 🔠 🏛	6 17 0	
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Query Results: Typical output of the Genome Mapping Form.

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															Ge	nome Map	ping
	Ma	ap yo	our TAGs within	n a Ge	enome	: R	esults										
2	Thi	s sec	tion allows to find	TAGS 1	within a	Ger	nome.										
EX																	
ONE	Sho	ow	50 💌											Downloa	ad all Results	Expression	Map
<b>New</b>	-										1		<i>c</i> 1				
	ine	ere ar	re 1,657 records t	nat ma	atched t	ne c	query. a	49 NIDS OU	t of 1,1	6ZZ	suomittea	TAG	s were tound				Next
Ø	N	тс	Seq	Freq	Odds	CI	LocD	LocT	TrPos	Ch	Ini	Str	StdName	SysName	GC TD DS BI	Cn	Info
Idd	1	Un	CATGGTCAACAAAG	2	0,807	Si	Int	int,opORF	0	1	43989	+	N.A.	YAL054C	🖹 🖬 🛄	340	-
EW	2	Un	CATGACACCACCAG	3	1,000	Fe	Int	int,opORF	0	1	140213	+	N.A.	YAL005C	📰 🔝 🏧	3010	-
NO	з	Un	CATGGAGGAGATTT	2	1.239	Au	ORF	ORFdu	2	1	141074	+	N.A.	YAL004W	📑 🖬 🔠 🎹	006	-
GEN	4	Un	CATGGCGCAGTTGG	5	1.000	Al	ORF	trna	1	1	166273	+	N.A.	tA(UGC)A	📰 🔝 🏧	340	-
-	5	Un	CATGCTGCATCCTA	4	1,000	Fe	Int	int,opORF	0	1	217023	+	N.A.	YAR060C	📑 🖬 🚮 🎹	006	
R	6	Un	CATGCAAAAGACTG	4	1,000	AI	ORF	ORFdu	1	1	229005	+	N.A.	YAR075W	i & 🏧	12 0 13	-
XPL	7	Un	CATGCACTTCAACT	20	1.000	Fe	Int	int	0	2	34908	+	N.A.		🖹 🔝 🏛	1283	-
8	8	Un	CATGTACACACACA	2	1,239	Au	UTR3	ORFdu	2	2	119235	+	N.A.	YBL054W	📰 🔝 🏛	340	-
IARI	9	Un	C AT GGT AT AT GT GT	2	1.000	Fe	Int	int	0	2	236361	+	N.A.		📑 🔝 🛄	603	-
B	10	Un	CATGGTACAAGGGT	2	0,343	Al	ORF	ORFV	з	2	478284	+	TEF2	YBR118W	📑 🖬 🚮 🎹	046	-
-	11	Un	CATGAGACAAACTG	2	0.402	Al	ORF	ORFv	2	2	478942	+	TEF2	YBR118W	📑 🖬 🔠 🎹	61 55 193	-
NI I	12	Un	CATGGAAATCCGGT	2	0,807	Si	Int	int,opORF	0	2	576616	+	N.A.	YBR170C	🖬 🔝 🛄	303	-
IAPP	13	Un	CATGTAAAAAAAAA	2	1.000	Fe	Int	int	0	2	622839	+	N.A.		📑 🖬 🔠 🎹	640	-
ES N	14	Un	CATGGCGTTTGAGG	2	1,000	Al	UTR3	ORFdu	1	2	635140	+	N.A.	YBR206W	i 🔠 🎹	600	-
ARI	15	Un	CATGCTCTGGTTCT	2	2.667	Al	ORF	ORFdu	з	2	704693	+	N.A.	YBR242W	📑 🖬 🔠 🎹	340	-
B	16	Un	CATGCGTCAGTGTG	9	0,807	Si	Int	int	0	2	812205	+	N.A.		i 🔠 🎹	9 17 0	-
	17	Un	CATGCACTTCAACT	20	1,000	Fe	Int	int	0	з	90077	+	N.A.	555	🖬 🖬 🎹	1283	
	18	Un	CATGTCTTCTCGTT	2	1,000	Al	ORF	ORFV	1	4	45892	+	SSB1	YDL229W	i & 🎞	6 12 0	-
	19	Un	CATGTACATACATC	2	1.000	Al	UTR3	ORFV	1	4	99277	+	MRPL11	YDL202W	🖹 🖬 🛄	6 17 0	
	20	Un	CATGATATCAAAAA	2	0,375	Al	ORF	ORFV	7	4	179499	+	MSH5	YDL154W	i 🔠 🎹	6 17 0	-
				102		5 22											

**Query Results:** The total number of records that matched the query are reported. Also, the total number of unmatched tags (NIDs or Non-Identified Tags) out of the total number of submitted tags is given.

															Ge	поте Мар	ping
-	Ma	ip y	our TAGs withir	n a Ge	enome	: R	esults										
1.08	Thi	s sec	tion allows to find	TAGS	within a	Ger	nome.										
EXP	-																
ONE	Sho	w	50 💌											Downloa	ad all Results	Expression	Map
IEN																	
	Ine	ere a	re 1,657 records t	nat ma	atoned t	nec	query. a	49 NIDS OU	t of 1,0	DZZ	suomittea	TAG	s were toun	α.			Next
NG	N	TC	Seq	Freq	Odds	CI	LocD	LocT	TrPos	Ch	Ini	Str	StdName	SysName	GC TD DS BI	Cn	Info
Idd	1	Un	CATGGTCAACAAAG	2	0,807	Si	Int	int,opORF	0	1	43989	+	N.A.	YAL054C	🖹 🔝 🎹	340	-
EMA	2	Un	CATGACACCACCAG	3	1,000	Fe	Int	int,opORF	0	1	140213	+	N.A.	YAL005C	📰 🔝 🔝	3010	-
NON	з	Un	CATGGAGGAGATTT	2	1.239	Au	ORF	ORFdu	2	1	141074	+	N.A.	YAL004W	🖬 🖬 🖬 🎹	006	-
GEN	4	Un	CATGGCGCAGTTGG	5	1,000	Al	ORF	trna	1	1	166273	+	N.A.	tA(UGC)A	📑 🖬 🔛	340	-
	5	Un	CATGCTGCATCCTA	4	1,000	Fe	Int	int,opORF	0	1	217023	+	N.A.	YAR060C	📰 🔝 🛄	006	
ORE	6	Un	CATGCAAAAGACTG	4	1,000	Al	ORF	ORFdu	1	1	229005	+	N. A.	YAR075W	📰 🔝 🛄	12 0 13	-
XPL	7	Un	CATGCACTTCAACT	20	1.000	Fe	Int	int	0	2	34908	+	N.A.		🖬 🔝 🛄	1283	
ES E	8	Un	CATGTACACACACA	2	1,239	Au	UTR3	ORFdu	2	2	119235	+	N.A.	YBL054W	🖬 🔝 🔝	340	-
IAR	9	Un	C AT GGT AT AT GT GT	2	1.000	Fe	Int	int	0	2	236361	+	N.A.		🖬 🔝 🛄	603	
IBR	10	Un	CATGGTACAAGGGT	2	0,343	Al	ORF	ORFV	з	2	478284	+	TEF2	YBR118W	🖹 🔝 🛄	046	-
-	11	Un	CATGAGACAAACTG	2	0.402	Al	ORF	ORFv	2	2	478942	+	TEF2	YBR118W	🖬 🔝 🛄	61 55 193	
DNI	12	Un	CATGGAAATCCGGT	2	0,807	Si	Int	int,opORF	0	2	576616	+	N.A.	YBR170C	i 🔠 🎞	303	-
IA PP	13	Un	CATGTAAAAAAAAA	2	1.000	Fe	Int	int	0	2	622839	+	N.A.		📑 🔝 🛄	640	
ES N	14	Un	CATGGCGTTTGAGG	2	1,000	Al	UTR3	ORFdu	1	2	635140	+	N.A.	YBR206W	i 🔠 🎹	600	-
ARI	15	Un	CATGCTCTGGTTCT	2	2.667	Al	ORF	ORFdu	з	2	704693	+	N.A.	YBR242W	📰 🔝 🎹	340	
IBR	16	Un	CATGCGTCAGTGTG	9	0,807	Si	Int	int	0	2	812205	+	N.A.		i 🔠 🎹	9 17 0	-
	17	Un	CATGCACTTCAACT	20	1,000	Fe	Int	int	0	з	90077	+	N.A.	555	i 🔠 🎹	1283	
	18	Un	CATGTCTTCTCGTT	2	1,000	Al	ORF	ORFV	1	4	45892	+	SSB1	YDL229W	i 🔠 🎹	6 12 0	-
	19	Un	CATGTACATACATC	2	1,000	Al	UTR3	ORFV	1	4	99277	+	MRPL11	YDL202W	i 🔠 🎹	6 17 0	
	20	Un	CATGATATCAAAAA	2	0,375	Al	ORF	ORFV	7	4	179499	+	MSH5	YDL154W	i 🔠 🎹	6 17 0	-
															and the second se		

**Query Results:** Only a fraction of the results is displayed. This option can be easily changed by selecting a different number of rows to display or the next button used to go to the next page.

														Ge	поте Мар	ping
Ma	ip yo	our TAGs within	n a Ge	enome	:: R	esults										
This	s sec	tion allows to find	TAGS	within a	Ger	nome.										
She		50											Downloa	ad all Results	Expression	Max
one	m a	00											March Address of		Hendel, stallastastastastast	ihassal.
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		14040														
N	TC	Seq	Freq	Odds	CI	LocD	LocT	TrPos	Ch	Ini	Str	StdName	SysName	GC TO DS BI	Cn	Int
1	Un	CATGGTCAACAAAG	2	0,807	Si	Int	int,opORF	0	1	43989	+	N.A.	YAL054C		340	
2	Un	CATGACACCACCAG	3	1,000	Fe	Int	int,opORF	0	1	140213	+	N.A.	YAL005C		3010	-
3	Un	CATGGAGGAGATTT	2	1,239	Au	ORF	ORFdu	2	1	141074	+	N.A.	YAL004W		006	-
4	Un	CATGGCGCAGTTGG	5	1,000	Al	ORF	trna	1	1	166273	+	N.A.	tA(UGC)A		340	-
5	Un	CATGCTGCATCCTA	4	1,000	Fe	Int	int,opORF	0	1	217023	+	N.A.	YAR060C		006	1
6	Un	CATGCAAAAGACTG	4	1,000	Al	ORF	ORFdu	1	1	229005	+	N.A.	YAR075W		12 0 13	-
7	Un	CATGCACTTCAACT	20	1,000	Fe	Int	int	0	2	34908	+	N.A.	575		1283	
8	Un	CATGTACACACACA	2	1,239	Au	UTR3	ORFdu	2	2	119235	+	N.A.	YBL054W	i & III	340	-
9	Un	C AT GGT AT AT GT GT	2	1.000	Fe	Int	int	0	2	236361	+	N.A.	575	🖬 🔝 🏧	603	1
10	Un	CATGGTACAAGGGT	2	0,343	Al	ORF	ORFV	з	2	478284	+	TEF2	YBR118W	🖬 🔝 🏧	046	-
11	Un	CATGAGACAAACTG	2	0.402	Al	ORF	ORFv	2	2	478942	+	TEF2	YBR118W	i 🔠 🎹	61 55 193	
12	Un	CATGGAAATCCGGT	2	0,807	Si	Int	int,opORF	0	2	576616	+	N.A.	YBR170C	i & 🎞	303	-
13	Un	CATGTAAAAAAAAA	2	1.000	Fe	Int	int	0	2	622839	+	N.A.	575	📑 🖬 🔠 🎹	640	-
14	Un	CATGGCGTTTGAGG	2	1,000	Al	UTR3	ORFdu	1	2	635140	+	N.A.	YBR206W	i & 🎞	600	-
15	Un	CATGCTCTGGTTCT	2	2.667	Al	ORF	ORFdu	з	2	704693	+	N.A.	YBR242W	📑 🖬 🔠 🎹	340	1
16	Un	CATGCGTCAGTGTG	9	0,807	Si	Int	int	0	2	812205	+	N.A.	+++	🖬 🔝 🛄	9170	-
17	Un	CATGCACTTCAACT	20	1,000	Fe	Int	int	0	з	90077	+	N.A.		🖬 🔝 🛄	1283	-
18	Un	CATGTCTTCTCGTT	2	1.000	Al	ORF	ORFV	1	4	45892	+	SSB1	YDL229W	i & III	6 12 0	-
19	Un	CATGTACATACATC	2	1.000	Al	UTR3	ORFv	1	4	99277	+	MRPL11	YDL202W	i 🔠 🏛	6 17 0	-
20	Un	CATGATATCAAAAA	2	0,375	Al	ORF	ORFV	7	4	179499	+	MSH5	YDL154W	📰 🔝 🔝	6 17 0	-
			124	Market States				100	120						12202222	

**Query Results:** The full table can be downloaded as tab-delimited text (compressed file or tar.gzipped).

															Gei	поте Мар	ping
	Ma	р ус	our TAGs withi	n a Ge	enome	: R	esults										
5	This	s sec	tion allows to find	TAGS	within a	Ger	nome.										
×.		1															
N	Sho	w	50 💌											Downloa	nd all Results	Expression	Мар
ien.			100000 100							20202	a a	20202	3				20. 0
<u> </u>	The	ere ar	re 1,657 records	that m	atched t	he (	query.3	49 NIDs out	: of 1,	622	submitted	TAG	s were tour	id.			Next
NG	N	TC	Seq		12										TD DS BI	Cn	Info
Idd	1	Un	CATGGTCAACAAA	SAG	Exploi	е									i 🔠 🎹	340	-
W	2	Un	CATGACACCACCA												i & III	3010	-
INO	з	Un	CATGGAGGAGATT	Dow	nload	All	Result	ts							1 61 🎹	006	
GEN	4	Un	CATGGCGCAGTTG												i 🔠 🎹	340	-
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XPL	7	Un	CATGCACTTCAAC							-1					1 63 🎹	1283	
8	8	Un	CATGTACACACAC	Note	: This f	ile	will sta	y at this site	for 5	5 hrs	;.				i 🗟 🎹	340	-
ARI	9	Un	C AT GGT AT AT GT G												1 63 🎹	603	
B	10	Un	CATGGTACAAGGG												1 ĉi 🎹	046	-
-	11	Un	CATGAGACAAACT												1 63 🎹	61 55 193	
NI I	12	Un	CATGGAAATCCGGT	2	0,807	Si	Int	int,opORF	0	2	576616	+	N.A.	YBR170C	📰 🔝 🔝	303	-
IA PP	13	Un	CATGTAAAAAAAAA	2	1.000	Fe	Int	int	0	2	622839	+	N.A.		📑 🔝 🛄	640	-
ES N	14	Un	CATGGCGTTTGAGG	2	1.000	Al	UTR3	ORFdu	1	2	635140	+	N.A.	YBR206W	i 🔠 🎹	600	-
ARI	15	Un	CATGCTCTGGTTCT	2	2.667	Al	ORF	ORFdu	з	2	704693	+	N.A.	YBR242W	📑 🖬 🔠 🎹	340	
IBR	16	Un	CATGCGTCAGTGTG	9	0,807	si	Int	int	0	2	812205	+	N.A.		i 🔠 🎹	9 17 0	-
-	17	Un	CATGCACTTCAACT	20	1.000	Fe	Int	int	0	з	90077	+	N.A.		🖬 🔝 🎹	1283	-
	18	Un	CATGTCTTCTCGTT	2	1.000	Al	ORF	ORFV	1	4	45892	+	SSB1	YDL229W	i & 🎹	6 12 0	-
	19	Un	CATGTACATACATC	2	1,000	Al	UTR3	ORFV	1	4	99277	+	MRPL11	YDL202W	i 🔠 🎹	6 17 0	
	20	Un	CATGATATCAAAAA	2	0,375	Al	ORF	ORFV	7	4	179499	+	MSH5	YDL154W	i & 🎹	6 17 0	-

**Query Results:** Compressed files for download are kept for 5 hours at the server and then deleted. By clicking on the filename, the file is downloaded.

														Ge	поте Мар	ping
N	1ap	your TAGs with	nin a G	enome	e: R	esults										
т	'his s	ection allows to fin	d TAGs	within a	Ger	nome.										
													1			
S	how	50											Downlo	ad all Results	Expression	Мар
т	bara	are 1 657 record	c that m	atched	the c	Wary S		+ of 1 4	:22	cubroitted	TAG	r were four	d			Nevi
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	1 0	n CATGOTCAACAAA	e z	0.807	51	Int	INT, OPORF	0	ı	43989	+	N.A.	YALU54C		340	
	2 U	n CATGACACCACCA	G 3	1,000	Fe	Int	int,opORF	0	1	140213	+	N. A.	YAL005C	i & 🎹	3010	-
	з и	n CATGGAGGAGATT	т 2	1.239	Au	ORF	ORFdu	2	1	141074	+	N.A.	YAL004W	📑 🖬 👪 🎹	006	
	4 U	n CATGGCGCAGTTG	G 5	1,000	Al	ORF	trna	1	1	166273	+	N.A.	tA(UGC)A	i & 🎹	340	-
	5 U	n CATGCTGCATCCT	A 4	1.000	Fe	Int	int,opORF	0	1	217023	+	N.A.	YAR060C	🖬 🔝 🎹	006	-
	6 U	n CATGCAAAAGACT	G 4	1,000	Al	ORF	ORFdu	1	1	229005	+	N.A.	YAR075W	🖬 🔝 🔠 🎹	12 0 13	-
	7 U	n CATGCACTTCAAC	T 20	1.000	Fe	Int	int	0	2	34908	+	N.A.	575	📑 🖬 🔠 🎹	1283	-
	8 U	n CATGTACACACAC	A 2	1,239	Au	UTR3	ORFdu	2	2	119235	+	N.A.	YBL054W	🖬 🖬 🔛	340	4
	9 U	n CATGGTATATGTG	т 2	1.000	Fe	Int	int	0	2	236361	+	N.A.	575	🖬 🔝 🏧	603	-
1	LO U	n CATGGTACAAGGG	т 2	0,343	Al	ORF	ORFV	з	2	478284	+	TEF2	YBR118W	📑 🖬 🔠 🎹	046	-
-	L1 U	n CATGAGACAAACT	G 2	0.402	Al	ORF	ORFV	2	2	478942	+	TEF2	YBR118W	i 🔠 🎹	61 55 193	-
1	L2 U	n CATGGAAATCCGG	т 2	0,807	Si	Int	int,opORF	0	2	576616	+	N.A.	YBR170C	🖬 🖬 🔛	303	-
1	цз Ц	n CATGTAAAAAAAA	A 2	1.000	Fe	Int	int	0	2	622839	+	N.A.	575	📑 🖬 🔠 🎹	640	
3	L4 U	n CATGGCGTTTGAG	G 2	1,000	Al	UTR3	ORFdu	1	2	635140	+	N.A.	YBR206W	🖬 🔝 🔠 🎹	600	-
1	L5 U	n CATGCTCTGGTTC	т 2	2.667	Al	ORF	ORFdu	з	2	704693	+	N.A.	YBR242W	🖬 🔝 🏧	340	-
1	16 U	n CATGCGTCAGTGT	G 9	0,807	Si	Int	int	0	2	812205	+	N.A.		📑 🖬 🔠 🎹	9 17 0	-
1	L7 U	n CATGCACTTCAAC	T 20	1.000	Fe	Int	int	0	з	90077	+	N.A.	575	📑 🖬 🔠 🎹	1283	-
1	LS U	n CATGTCTTCTCGT	т 2	1.000	Al	ORF	ORFv	1	4	45892	+	SSB1	YDL229W	📰 🔝 🖭	6 12 0	-
1	19 U	n CATGTACATACAT	c 2	1.000	Al	UTR3	ORFv	1	4	99277	+	MRPL11	YDL202W	📰 🔝 🛄	6 17 0	
4	20 U	n CATGATATCAAAA	A 2	0,375	Al	ORF	ORFV	7	4	179499	+	MSH5	YDL154W	📰 🔝 🔝	6 17 0	4
														Contraction Contraction 1 (Contractor Contractor)		

**Query Results:** Online help explaining the meaning of each column is obtained by left-clicking with the mouse over the column headers.

															Gei	поте Мар	ping
	Ma	p y	our TAGs within	n a Ge	enome	: R	esults										
LOR	Thi	s sec	tion allows to find '	TAGS	within a	Ger	nome.										
EXP																	
N.	Sho	w	50 💌											Downloa	ad all Results	Expression	Мар
IENG			2012/2012 2012	100	0.00	12		1.10101.001		21272		20202					
<u> </u>	The	re ar	re <b>1,657</b> records t	hat ma	atched t	he o	query.3	349 NIDs ou	t of 1,	522	submitted	TAG	s were foun	d.			Next
S.	N	TC	Seq	Freq	Odds	CI	LocD	LocT	TrPos	Ch	Ini	Str	StdName	SysName	GC TD DS BI	Cn	Info
Idd	1	Un	CATGGTCAACAAAG	2	0.807	Si	Int	int,opORF	0	1	43989	+	N.A.	YAL054C		340	-
MA	2	Un	CATGACACCACCAG	3	1.000	Fe	Int	int,opORF	0	1	140213	+	N.A.	YAL005C	i 🕅 🎹	3010	-
ION	з	Un	CATGGAGGAGATTT	2	1.239	Au	ORF	ORFdu	2	1	141074	+	N.A.	YAL004W	🖹 i 🔠 🎹	006	-
GEN	4	Un	CATGGCGCAGTTGG	5	1,000	Al	ORF	trna	1	1	166273	+	N.A.	tA(UGC)A	🖬 🖬 🔛	340	-
	5	Un	CATGCTGCATCCTA	4	1,000	Fe	Int	int,opORF	0	1	217023	+	N.A.	YAR060C	📑 🖬 🔠 🎹	006	-
S	6	Un	CATGCAAAAGACTG	4	1,000	Al	ORF	ORFdu	1	1	229005	+	N.A.	YAR075W	i & 🎹	12 0 13	-
XPL	7	Un	CATGCACTTCAACT	20	1,000	Fe	Int	int	0	2	34908	+	N.A.	575	📑 🖬 🔠 🎹	1283	
22	8	Un	CATGTACACACACA	2	1,239	Au	UTR3	ORFdu	2	2	119235	+	N.A.	YBL054W	📰 🔝 🔝	340	-
ARI	9	Un	C AT GGT AT AT GT GT	2	1.000	Fe	Int	int	0	2	236361	+	N.A.	575	📰 🔝 🔝	603	-
LIBR	10	Un	CATGGTACAAGGGT	2	0,343	Al	ORF	ORFV	з	2	478284	+	TEF2	YBR118W	i & 🎹	046	-
-	11	Un	CATGAGACAAACTG	2	0.402	Al	ORF	ORFv	2	2	478942	+	TEF2	YBR118W	i 🔠 🎹	61 55 193	-
ING	12	Un	CATGGAAATCCGGT	2	0,807	Si	Int	int,opORF	0	2	576616	+	N.A.	YBR170C	i & 🎞	303	-
IAPP	13	Un	CATGTAAAAAAAAA	2	1.000	Fe	Int	int	0	2	622839	+	N.A.	575	i 🔠 🎹	640	-
12	14	Un	CATEGCETTTEAGE	2	1,000	Al	UTRS	ORFdu	1	2	635140	+	N.A.	YBR206W	i & 🎹	600	-
ARI	15	Un	CATGCTCTGGTTCT	2	2.667	Al	ORF	ORFdu	з	2	704693	+	N.A.	YBR242W	i 🔠 🎹	340	
IBF	16	Un	CATECETCAETETE	9	0,807	Si	Int	int	0	2	812205	+	N.A.		i & 🎞	9 17 0	-
	17	Un	CATGCACTTCAACT	20	1,000	Fe	Int	int	0	З	90077	+	N.A.		i 🔠 🎹	1283	
	18	Un	CATGTCTTCTCGTT	2	1,000	Al	ORF	ORFV	1	4	45892	+	SSB1	YDL229W	i 🔠 🎹	6 12 0	-
	19	Un	CATGTACATACATC	2	1,000	Al	UTR3	ORFV	1	4	99277	+	MRPL11	YDL202W	🖬 🔝 🏧	6 17 0	-
	20	Un	CATGATATCAAAAA	2	0,375	Al	ORF	ORFV	7	4	179499	+	MSH5	YDL154W	i 🔠 🎹	6 17 0	-
	04		almocommacomm		1 000	0.1	ODE	OD E.	4	4	000500	122	00040	1101 400111	AT AT	15 10 0	

Query Results: These 6 columns contain linked fields.

															Gei	nome Map	ping
	Ma	р у	our TAGs within	n a Ge	enome	: R	esults										
B	Thi	s sec	tion allows to find <sup>·</sup>	TAGS	within a	Ger	nome.										
EX																	
Dive	Sho	w	50 💌											Downloa	ad all Results	Expression	Мар
IEN																	
Ŭ.,	Ine	ere ai	re 1,657 records t	nat ma	atched t	ne c	uery.3	49 NIDS OU	t of 1,	6ZZ	submitted	TAG	s were toun	а.			Next
Ø	N	TC	Seq	Freq	Odds	CI	LocD	LocT	TrPos	Ch	Ini	Str	StdName	SysName	GC TD DS BI	Cn	Info
Idd	1	Un	CATGGTCAACAAAG	2	0,807	Si	Int	int,opORF	0	1	43989	+	N.A.	YAL054C	📑 🖬 🔠 🎹	340	-
E N	2	Un	CATGACACCACCAG	3	1,000	Fe	Int	int,opORF	0	1	140213	+	N.A.	YAL005C	📰 🔝 🛄	3010	-
NO	з	Un	CATGGAGGAGATTT	2	1.239	Au	ORF	ORFdu	2	1	141074	+	N.A.	YAL004W	i 🔠 🎹	006	
B	4	Un	CATGGCGCAGTTGG	5	1.000	Al	ORF	tRNA	1	1	166273	+	N.A.	tA(UGC)A	📰 🔝 🔳	340	-
	5	Un	CATGCTGCATCCTA	4	1.000	Fe	Int	int,opORF	0	1	217023	+	N.A.	YAR060C	📰 🔝 🔝	006	
R.	6	Un	CATGCAAAAGACTG	4	1.000	Al	ORF	ORFdu	1	1	229005	+	N.A.	YAR075W	📰 🔝 🔝	12 0 13	-
X	7	Un	CATGCACTTCAACT	20	1.000	Fe	Int	int	0	2	34908	+	N.A.		📑 🔝 🛄	1283	-
8	8	Un	CATGTACACACACA	2	1,239	Au	UTR3	ORFdu	2	2	119235	+	N.A.	YBL054W	i & 🎹	340	-
IARI	9	Un	C AT GGT AT AT GT GT	2	1,000	Fe	Int	int	0	2	236361	+	N.A.		📑 🖬 🚮 🎹	603	
i i	10	Un	CATGGTACAAGGGT	2	0,343	Al	ORF	ORFV	з	2	478284	+	TEF2	YBR118W	i 🔠 🎹	046	
-	11	Un	CATGAGACAAACTG	2	0.402	Al	ORF	ORFv	2	2	478942	+	TEF2	YBR118W	i 🔠 🏛	61 55 193	
N	12	Un	CATGGAAATCCGGT	2	0,807	Si	Int	int,opORF	0	2	576616	+	N.A.	YBR170C	🖬 🖬 📶	303	-
IAPI	13	Un	CATGTAAAAAAAAA	2	1,000	Fe	Int	int	0	2	622839	+	N.A.	575	📑 🖬 🔠 🎹	640	1.0
ES I	14	Un	CATGGCGTTTGAGG	2	1,000	Al	UTR3	ORFdu	1	2	635140	+	N.A.	YBR206W	i 🔝 🎹	600	-
LARI	15	Un	CATGCTCTGGTTCT	2	2.667	Al	ORF	ORFdu	з	2	704693	+	N.A.	YBR242W	📰 🔝 🎹	340	1.0
E I	16	Un	CATGCGTCAGTGTG	9	0,807	Si	Int	int	0	2	812205	+	N.A.		i & 🏛	9 17 0	4
	17	Un	CATGCACTTCAACT	20	1.000	Fe	Int	int	0	з	90077	+	N.A.		🖬 🖬 🛄	1283	
	18	Un	CATGTCTTCTCGTT	2	1.000	Al	ORF	ORFV	1	4	45892	+	SSB1	YDL229W	i & 🛄	6 12 0	-
	19	Un	CATGTACATACATC	2	1.000	Al	UTR3	ORFV	1	4	99277	+	MRPL11	YDL202W	i 🔠 🎹	6 17 0	17
	20	Un	CATGATATCAAAAA	2	0,375	Al	ORF	ORFV	7	4	179499	+	MSH5	YDL154W	i & 🎹	6 17 0	-

**Query Results:** By clicking over the standard gene name, a query to the Saccharomyces Genome Database is launched. Thus, the user can obtain a large amount of data about a given gene.

															Gei	nome Map	ping
	Ma	р у	our TAGs within	n a Ge	enome	: R	esults										
LOR	Thi	s sec	tion allows to find <sup>-</sup>	TAGS 1	within a	Ger	nome.										
EX.																	
Se la compañía de la comp	Sho	w	50											Downloa	nd all Results	Expression	Мар
DEN	The											TAC					March
<u> </u>	The	ere al	re 1,637 records t	natma	atched t	ne c	query. a	149 NIDS OU	cor 1,	DZZ	suomittea	TAG	s were toun	α,			Next
9	N	TC	Seq	Freq	Odds	CI	LocD	LocT	TrPos	Ch	Ini	Str	StdName	SysName	GC TD DS BI	Cn	Info
APPI	1	Un	CATGGTCAACAAAG	2	0.807	Si	Int	int,opORF	0	1	43989	+	N.A.	YAL054C	🖬 🔝 🛄	340	-
EN	2	Un	CATGACACCACCAG	3	1.000	Fe	Int	int,opORF	0	1	140213	+	N.A.	YAL005C	i & 🔳	3010	-
NON	з	Un	CATGGAGGAGATTT	2	1.239	Au	ORF	ORFdu	2	1	141074	+	N.A.	YAL004W	i 🔠 🏛	006	-
GE	4	Un	CATGGCGCAGTTGG	5	1.000	Al	ORF	tRNA	1	1	166273	+	N.A.	tA(UGC)A	i & 🏛	340	-
	5	Un	CATGCTGCATCCTA	4	1.000	Fe	Int	int,opORF	0	1	217023	+	N.A.	YAR060C	i 🔠 🎹	006	-
B	6	Un	CATGCAAAAGACTG	4	1,000	Al	ORF	ORFdu	1	1	229005	+	N.A.	YAR075W	i & 🛄	12 0 13	-
XPL	7	Un	CATGCACTTCAACT	20	1.000	Fe	Int	int	0	2	34908	+	N.A.		i & 🛄	1283	-
8	8	Un	CATGTACACACACA	2	1,239	Au	UTR3	ORFdu	2	2	119235	+	N.A.	YBL054W	i & 🎹	340	-
IARI	9	Un	C AT GGT AT AT GT GT	2	1,000	Fe	Int	int	0	2	236361	+	N.A.		i 🔠 🎹	603	
186	10	Un	CATGGTACAAGGGT	2	0,343	Al	ORF	ORFV	з	2	478284	+	TEF2	YBR118W	i & 🎞	046	
-	11	Un	CATGAGACAAACTG	2	0.402	Al	ORF	ORFv	2	2	478942	+	TEF2	YBR118W	i & 🎞	61 55 193	
NI I	12	Un	CATGGAAATCCGGT	2	0,807	Si	Int	int,opORF	0	2	576616	+	N. A.	YBR170C	i & 🎞	303	-
IAP	13	Un	C AT GT AAAAAAAAA	2	1,000	Fe	Int	int	0	2	622839	+	N. A.		📑 🖬 🛄	640	
ES N	14	Un	CATGGCGTTTGAGG	2	1,000	Al	UTR3	ORFdu	1	2	635140	+	N.A.	YBR206W	i & 🎞	600	-
ARI	15	Un	CATGCTCTGGTTCT	2	2.667	Al	ORF	ORFdu	з	2	704693	+	N.A.	YBR242W	i & 🎞	340	
IBF	16	Un	CATGCGTCAGTGTG	9	0,807	Si	Int	int	0	2	812205	+	N.A.		i & 🎞	9170	-
	17	Un	CATGCACTTCAACT	20	1,000	Fe	Int	int	0	з	90077	+	N.A.		i 🔠 🎞	1283	
	18	Un	CATGTCTTCTCGTT	2	1,000	Al	ORF	ORFV	1	4	45892	+	SSB1	YDL229W	i & 🎞	6 12 0	-
	19	Un	CATGTACATACATC	2	1.000	Al	UTR3	ORFV	1	4	99277	+	MRPL11	YDL202W	🖬 🖬 🛄	6 17 0	
	20	Un	CATGATATCAAAAA	2	0,375	Al	ORF	ORFV	7	4	179499	+	MSH5	YDL154W	i & 🎞	6 17 0	4

**Query Results:** By clicking over the systematic gene name, a query to the Saccharomyces Genome Database is launched. Thus, the user can obtain a large amount of data about a given gene.

Quick	Search:	Submit	Site Map   Full Search   Hel	p   Contact SGD   Hor	ne
Community Info Sub	bmit Data <u>BLAST</u>	Primers PatMatch	Gene/Seq Resources	Advanced Search	<u>Virtual Library</u>
		SSB1/YDL2	29W Summary		Help
Summary Locus History	Literature Gene Onto	ology Phenotype Ir	nteractions Expression Protei	in	
Alternative single page fo	ormat				
SSB1 BASIC INFORM	ATION [ <u>View Refer</u>	ences]		SSB1 RES	OURCES
Standard Name	SSB1 (see <u>Nomen</u>	nclature conflict Note)		Click on map for	expanded view
Systematic Name	YDL229W			SGD ORF map 43000 to 48000	chrIV
Alias	YG101 <sup>1</sup>			57	$\longleftrightarrow \rightarrow $
Feature Type	ORF, Verified			YDL228C 5' ARS404	YDL230W YDL228C
Description	Cytoplasmic ATPas chaperone, function folding of newly-ma family; interacts with see <u>Summary Para</u>	se that is a ribosome- ns with J-protein partn ide polypeptide chain h phosphatase subun <u>agraph</u> )	associated molecular er Zuo1p; may be involved in s; member of the HSP70 it Reg1p (2, 3, 4, 5, 6, 7, 8 and	• Literature	ARS404
GO Annotations	SSB1 GO evidence	<u>e and references</u>		Literature Guide	View
Molecular Function	<ul> <li><u>ATPase activity</u> (<u>I</u></li> <li><u>unfolded protein b</u></li> </ul>	I <u>DA)</u> binding (IDA, ISS, TA:	<u>S</u> )	Retrieve Sequence	ces
Biological Process	<ul> <li>cotranslational protein biosynthese</li> </ul>	otein folding (IDA)		Genomic DNA	View

**SGD Query:** An example of the results obtained when quering the Saccharomyces Genome Database by standard or systematic gene name.

															Gei	nome Map	ping
	Ma	n v	our TAGs withir	n a Ge	enome	: R	esults										
B	This	s sec	tion allows to find <sup>•</sup>	TAGS 1	within a	Ger	nome.										
EX.																	
No.	Sho	w	50 💌											Downloa	ad all Results	Expression	Map
Ē	3240			1.00	0.4. 1415	32			1903-993		a ao a		22				
<u> </u>	The	ere a	re <b>1,657</b> records t	hat ma	atched t	he c	query.3	349 NIDs ou	t of 1,0	522	submitted	TAG	s were foun	d.			Next
9	N	тс	Seq	Freq	Odds	CI	LocD	LocT	TrPos	Ch	Ini	Str	StdName	SysName	GC TD DS BI	Cn	Info
Idd	1	Un	CATGGTCAACAAAG	2	0.807	Si	Int	int,opORF	0	1	43989	+	N.A.	YAL054C	🖹 i 🔠 🎹	340	. = .
MA	2	Un	CATGACACCACCAG	3	1.000	Fe	Int	int,opORF	0	1	140213	+	N.A.	YAL005C	i & m	3010	-
IONE	з	Un	CATGGAGGAGATTT	2	1.239	Au	ORF	ORFdu	2	1	141074	+	N.A.	YAL004W	🗐 🖬 🔝 🏛	006	-
GEN	4	Un	CATGGCGCAGTTGG	5	1.000	AI	ORF	trna	1	1	166273	+	N.A.	tA(UGC)A	🖹 i 🔝 🎹	340	-
-	5	Un	CATGCTGCATCCTA	4	1.000	Fe	Int	int,opORF	0	1	217023	+	N.A.	YAR060C	📰 🔝 🛄	006	
B	6	Un	CATGCAAAAGACTG	4	1,000	Al	ORF	ORFdu	1	1	229005	+	N.A.	YAR075W	i & 🎹	12 0 13	-
XPL	7	Un	CATGCACTTCAACT	20	1.000	Fe	Int	int	0	2	34908	+	N.A.		📰 🔝 🔝	1283	-
88	8	Un	CATGTACACACACA	2	1,239	Au	UTR3	ORFdu	2	2	119235	+	N.A.	YBL054W	🖬 🔝 🛄	340	-
ARI	9	Un	C AT GGT AT AT GT GT	2	1.000	Fe	Int	int	0	2	236361	+	N.A.		📰 🔝 🔝	603	
LIBR	10	Un	CATGGTACAAGGGT	2	0,343	Al	ORF	ORFV	з	2	478284	+	TEF2	YBR118W	i 🔠 🎹	046	-
-	11	Un	CATGAGACAAACTG	2	0.402	Al	ORF	ORFv	2	2	478942	+	TEF2	YBR118W	📰 🔝 🛄	61 55 193	-
N.	12	Un	CATGGAAATCCGGT	2	0,807	Si	Int	int,opORF	0	2	576616	+	N.A.	YBR170C	i & III	303	-
IAPF	13	Un	CATGTAAAAAAAAA	2	1.000	Fe	Int	int	0	2	622839	+	N.A.	575	📑 🖬 🔠 🎹	640	-
ES I	14	Un	CATGGCGTTTGAGG	2	1,000	Al	UTR3	ORFdu	1	2	635140	+	N.A.	YBR206W	i 🔝 🎹	600	-
LARI	15	Un	CATGCTCTGGTTCT	2	2,667	Al	ORF	ORFdu	з	2	704693	+	N.A.	YBR242W	📑 🖬 🔠 🎹	340	
186	16	Un	CATGCGTCAGTGTG	9	0,807	Si	Int	int	0	2	812205	+	N.A.		🖬 🔝 🎹	9 17 0	-
	17	Un	CATGCACTTCAACT	20	1.000	Fe	Int	int	0	з	90077	+	N.A.	575	i 🔠 🎹	1283	17
	18	Un	CATGTCTTCTCGTT	2	1,000	Al	ORF	ORFv	1	4	45892	+	SSB1	YDL229W	i & III	6 12 0	-
	19	Un	CATGTACATACATC	2	1.000	Al	UTR3	ORFv	1	4	99277	+	MRPL11	YDL202W	i 🔠 🎹	6 17 0	
	20	Un	CATGATATCAAAAA	2	0,375	Al	ORF	ORFV	7	4	179499	+	MSH5	YDL154W	i & III	6 17 0	-
	0.4		a 1m c c cmmm a c cmm		1 000	0.1	ODE	OD E.	-	4	000500	1	DDD 1D	VD1400112	AT AT	45 40 0	

**Query Results:** The genomic context where a tag matches can be obtained by clicking on this field.

#### Genomic Context

Organism: Sacharomyces cerevisiae





Genomic Context: The selected tag is shown with a vertical arrow head.

#### Genomic Context





*Genomic Context:* Gene names are linked to the Saccharomyces Genome Database.

#### Genomic Context

**Organism:** Sacharomyces cerevisiae

Fragment Displayed: 1 - 6,000



Genomic Context: Keys of the graphical elements displayed above are provided.



Genomic Context: The fragment of the chromosome being displayed is specified.

#### Genomic Context



*Genomic Context:* In this case corresponds to the 5' end of the chromosome. The user can click on this graphical chromosome to select and display a different region.

#### Genomic Context



Genomic Context: The chromosome scale in base pairs is also shown.

#### Genomic Context



Fragment Displayed: 1 - 6,000



Genomic Context: The current chromosome number and size are given.

#### Genomic Context

Organism: Sacharomyces cerevisiae





*Genomic Context:* The 5' and 3' positions of the chromosome fragment displayed are also shown.

#### Genomic Context





**Genomic Context:** Clicking on the tag will display a pop-up window with several details about this tag. This pop-up window can also be launched from the main results table and thus it will be explained next from there.

															Gei	поте Мар	ping
	Ma	р у	our TAGs withir	n a Ge	enome	: R	esults										
E GR	Thi	s sec	tion allows to find	TAGS	within a	Ger	ome.										
EX.																	
ONE	Sho	w	50											Downloa	ad all Results	Expression	Мар
GEN	The		ra 1 657 racorde t	bat m	stobad t	ha a	wary 3		+ - f 1 4		cubraittad	тас	c wara faun	a			Next
	1116	ne a	re 1,637 records (	.nat m	atoneu t	ne c	laery. a	149 NIDS 00		.22	sabinittea	IAG	s were roun	u.			MEXC
DN NO	N	TC	Seq	Freq	Odds	CI	LocD	LocT	TrPos	Ch	Ini	Str	StdName	SysName	GC TD DS BI	Cn	Info
APPI	1	Un	CATGGTCAACAAAG	2	0,807	Si	Int	int,opORF	0	1	43989	+	N.A.	YAL054C	i 🔠 🛄	340	
EM	2	Un	CATGACACCACCAG	3	1,000	Fe	Int	int,opORF	0	1	140213	+	N.A.	YAL005C	i 🔠 🎹	3010	-
NON	з	Un	CATGGAGGAGATTT	2	1.239	Au	ORF	ORFdu	2	1	141074	+	N.A.	YAL004W	📑 🖬 🔠 🎹	006	-
GE	4	Un	CATGGCGCAGTTGG	5	1,000	Al	ORF	tRNA	1	1	166273	+	N.A.	tA(UGC)A	i & III	340	-
	5	Un	CATGCTGCATCCTA	4	1,000	Fe	Int	int,opORF	0	1	217023	+	N.A.	YAR060C		006	
S.	6	Un	CATGCAAAAGACTG	4	1,000	Al	ORF	ORFdu	1	1	229005	+	N.A.	YAR075W	i 🔠 🎹	12 0 13	-
X	7	Un	CATGCACTTCAACT	20	1.000	Fe	Int	int	0	2	34908	+	N.A.		🖹 i 🔠 🎹	1283	-
5	8	Un	CATGTACACACACA	2	1,239	Au	UTR3	ORFdu	2	2	119235	+	N.A.	YBL054W	i & III	340	-
IARI	9	Un	C AT GGT AT AT GT GT	2	1.000	Fe	Int	int	0	2	236361	+	N.A.	575	🖬 🖬 🎹	603	-
E.	10	Un	CATGGTACAAGGGT	2	0,343	Al	ORF	ORFV	з	2	478284	+	TEF2	YBR118W	i 🔠 🎹	046	-
-	11	Un	CATGAGACAAACTG	2	0.402	Al	ORF	ORFv	2	2	478942	+	TEF2	YBR118W	📑 🖬 🔠 🎹	61 55 193	1.7
Nie i	12	Un	CATGGAAATCCGGT	2	0,807	Si	Int	int,opORF	0	2	576616	+	N.A.	YBR170C	i 🔠 🎹	303	-
IAPE	13	Un	CATGTAAAAAAAAA	2	1.000	Fe	Int	int	0	2	622839	+	N.A.	575	📑 🖬 🔠 🎹	640	1.0
ES I	14	Un	CATGGCGTTTGAGG	2	1,000	Al	UTR3	ORFdu	1	2	635140	+	N.A.	YBR206W	i 🔠 🎹	600	-
IARI	15	Un	CATGCTCTGGTTCT	2	2,667	Al	ORF	ORFdu	з	2	704693	+	N.A.	YBR242W	📑 🖬 🔠 🎹	340	1.0
186	16	Un	CATGCGTCAGTGTG	9	0,807	Si	Int	int	0	2	812205	+	N.A.		🖬 🖬 🖬	9170	-
	17	Un	CATGCACTTCAACT	20	1.000	Fe	Int	int	0	3	90077	+	N.A.		🖹 🖬 🔛	1283	
	18	Un	CATGTCTTCTCGTT	2	1,000	Al	ORF	ORFV	1	4	45892	+	SSB1	YDL229W	i & 🎞	6 12 0	-
	19	Un	CATGTACATACATC	2	1.000	Al	UTR3	ORFV	1	4	99277	+	MRPL11	YDL202W	📑 🖬 🔠 🎹	6 17 0	
	20	Un	CATGATATCAAAAA	2	0,375	Al	ORF	ORFV	7	4	179499	+	MSH5	YDL154W	i 🔠 🎹	6 17 0	-

**Query Results:** A record with several tag details can be obtained by clicking on this field.

DDD1D

SAGExplore
------------

TAG	Detail

Frequency	Class Score	TAG Class	Odds Ratio
1	0,048	Pt	0,048
Confidence	Chromosome	Start Coord.	End Coord.
Hi	1	282	295
Strand	Location	Intron?	UTR Pred.
+	UTR5	N	Р
Туре	Position	Distance	Poly-A Next?
2	3	476	N
istance Poly-A	Length Poly-A	Feature Type	Feature Name
0	0	ORFdu	Dubious
Systemat	ic Name	Standa	rd Name
YALO	59W	N	.A.

*Tag details:* Many details about the tag are provided here. See the online help for an explanation of each field meaning.

															Gei	поте Мар	ping
	Ma	no v	our TAGs withir	n a Ge	enome	: R	esults										
E GE	Thi	s sec	tion allows to find '	TAGS	within a	Ger	nome.										
EXP																	
Ne la	Sho	w	50 💌											Downloa	ad all Results	Expression	Map
IENG				1997	0.00				1941		a as a		22				
<u> </u>	The	ere a	re <b>1,657</b> records t	that ma	atched t	he c	query.3	349 NIDs ou	t of 1,0	522	submitted	TAG	s were foun	d.			Next
9	N	TC	Seq	Freq	Odds	CI	LocD	LocT	TrPos	Ch	Ini	Str	StdName	SysName	GC TD DS BI	Cn	Info
Idd	1	Un	CATGGTCAACAAAG	2	0.807	Si	Int	int,opORF	0	1	43989	+	N.A.	YAL054C	= i & m	340	-
MA	2	Un	CATGACACCACCAG	3	1,000	Fe	Int	int,opORF	0	1	140213	+	N.A.	YAL005C		3010	-
OME	з	Un	CATGGAGGAGATTT	2	1.239	Au	ORF	ORFdu	2	1	141074	+	N.A.	YAL004W	i 🔠 🎹	006	-
GEN	4	Un	CATGGCGCAGTTGG	5	1.000	A	ORF	trna	1	1	166273	+	N.A.	tA(UGC)A	📑 i 🗟 🎹	340	-
-	5	Un	CATGCTGCATCCTA	4	1.000	Fe	Int	int,opORF	0	1	217023	+	N.A.	YAR060C	🖹 🔝 🛄	006	-
诺	6	Un	CATGCAAAAGACTG	4	1,000	AI	ORF	ORFdu	1	1	229005	+	N.A.	YAR075W	🖬 🖬 🖬	12 0 13	-
XPL	7	Un	CATGCACTTCAACT	20	1,000	Fe	Int	int	0	2	34908	+	N.A.		🖹 i 🔠 🎹	1283	-
200	8	Un	CATGTACACACACA	2	1,239	Au	UTR3	ORFdu	2	2	119235	+	N.A.	YBL054W	🖬 🔝 🎹	340	-
ARI	9	Un	C AT GGT AT AT GT GT	2	1.000	Fe	Int	int	0	2	236361	+	N.A.	575	📰 🔝 🛄	603	-
E.	10	Un	CATGGTACAAGGGT	2	0,343	Al	ORF	ORFV	з	2	478284	+	TEF2	YBR118W	🖬 🔝 🏛	046	-
-	11	Un	CATGAGACAAACTG	2	0.402	Al	ORF	ORFv	2	2	478942	+	TEF2	YBR118W	i & 🏛	61 55 193	
<b>BNIC</b>	12	Un	CATGGAAATCCGGT	2	0,807	Si	Int	int,opORF	0	2	576616	+	N.A.	YBR170C	i & III	303	-
IAPF	13	Un	CATGTAAAAAAAAA	2	1.000	Fe	Int	int	0	2	622839	+	N.A.	575	📑 🖬 🔠 🎹	640	-
ES I	14	Un	CATGGCGTTTGAGG	2	1,000	Al	UTR3	ORFdu	1	2	635140	+	N.A.	YBR206W	i 🔠 🎹	600	-
UARI	15	Un	CATGCTCTGGTTCT	2	2,667	Al	ORF	ORFdu	з	2	704693	+	N.A.	YBR242W	📑 🖬 🔠 🎹	340	
E E	16	Un	CATGCGTCAGTGTG	9	0,807	Si	Int	int	0	2	812205	+	N.A.		🖬 🖬 🖬	9170	-
	17	Un	CATGCACTTCAACT	20	1.000	Fe	Int	int	0	З	90077	+	N.A.	.5.7.5	🖹 i 🔠 🎹	1283	
	18	Un	CATGTCTTCTCGTT	2	1,000	Al	ORF	ORFV	1	4	45892	+	SSB1	YDL229W	i & 🛄	6 12 0	4
	19	Un	CATGTACATACATC	2	1.000	Al	UTR3	ORFv	1	4	99277	+	MRPL11	YDL202W		6 17 0	
	20	Un	CATGATATCAAAAA	2	0,375	Al	ORF	ORFV	7	4	179499	+	MSH5	YDL154W	i & III	6 17 0	-
	04		a 1m c c cmmm a c cmm		+ 000	0.1	ODE	0.0.5	-		000500	1.1	DDDAD	1101400111	AT AT	15 10 0	

**Query Results:** The genomic sequence context where the tag matches can be downloaded by clicking on this field.

ATCG: UTR <u>ATCG</u>: TAG **ATG ... STOP**: ORF

**Download Sequence:** If the tag matches an ORF (as it is in this example), the transcript sequence is given. The 5' and 3' UTRs, the start and stop codons, and the tag sequence are all highlighted. If the tag matches an intergenic region, the 500 flanking nucleotides upstream and downstrem the tag are provided. In this case, neighbor elements such as UTRs from other genes are also highlighted if present.

ATCG: UTR <u>ATCG</u>: TAG **ATG** ... **STOP**: ORF

>scer|chr:4|+|229806-230618

**Download Sequence:** The FASTA header indicates the exact region of the sequence displayed.

															Gei	nome Map	ping
	Ma	ip y	our TAGs within	n a Ge	enome	: R	esults										
E.	Thi	s sec	tion allows to find <sup>-</sup>	TAGS 1	within a	Ger	nome.										
ΕX		2															
Se la	Sho	w	50											Downloa	ad all Results	Expression	Мар
BEN	The											TAC					Neuk
	ine	re a	re 1,657 records t	nacina	atoneu t	ne c	juery, a	49 NIDS OU		022	submitteu	TAG	s were toun	u.			Next
2	N	TC	Seq	Freq	Odds	CI	LocD	LocT	TrPos	Ch	Ini	Str	StdName	SysName	GC TD DS BI	Cn	Info
APPI	1	Un	CATGGTCAACAAAG	2	0.807	Si	Int	int,opORF	0	1	43989	+	N.A.	YAL054C	i & 🛄	340	
EN	2	Un	CATGACACCACCAG	3	1.000	Fe	Int	int,opORF	0	1	140213	+	N.A.	YAL005C	📰 🔝 🔝	3010	-
NON	з	Un	CATGGAGGAGATTT	2	1.239	Au	ORF	ORFdu	2	1	141074	+	N.A.	YAL004W	📑 🔝 🛄	006	
E C	4	Un	CATGGCGCAGTTGG	5	1.000	Al	ORF	tRNA	1	1	166273	+	N.A.	tA(UGC)A	i & III	340	-
	5	Un	CATGCTGCATCCTA	4	1.000	Fe	Int	int,opORF	0	1	217023	+	N.A.	YAR060C	📑 🖬 🔠 🎹	006	
B	6	Un	CATGCAAAAGACTG	4	1,000	Al	ORF	ORFdu	1	1	229005	+	N.A.	YAR075W	📑 🖬 🚮 🎹	12 0 13	-
XPL	7	Un	CATGCACTTCAACT	20	1,000	Fe	Int	int	0	2	34908	+	N.A.		🖹 🔝 🛄	1283	-
3	8	Un	CATGTACACACACA	2	1,239	Au	UTR3	ORFdu	2	2	119235	+	N.A.	YBL054W	i & III	340	-
UARI	9	Un	C AT GGT AT AT GT GT	2	1,000	Fe	Int	int	0	2	236361	+	N.A.	535	🖬 🖬 🎹	603	
186	10	Un	CATGGTACAAGGGT	2	0,343	Al	ORF	ORFV	з	2	478284	+	TEF2	YBR118W	i 🔝 🎹	046	-
-	11	Un	CATGAGACAAACTG	2	0.402	Al	ORF	ORFV	2	2	478942	+	TEF2	YBR118W	📑 🖬 🔠 🎹	61 55 193	
NI	12	Un	CATGGAAATCCGGT	2	0,807	Si	Int	int,opORF	0	2	576616	+	N.A.	YBR170C	🖬 🖬 📶	303	-
IAPI	13	Un	CATGTAAAAAAAAA	2	1,000	Fe	Int	int	0	2	622839	+	N.A.	575	📑 🖬 🔠 🎹	640	17
ES I	14	Un	CATGGCGTTTGAGG	2	1,000	Al	UTR3	ORFdu	1	2	635140	+	N.A.	YBR206W	🖬 🖬 🖬	600	-
UARI	15	Un	CATGCTCTGGTTCT	2	2.667	Al	ORF	ORFdu	з	2	704693	+	N.A.	YBR242W	📰 🔝 🏛	340	17
18	16	Un	CATGCGTCAGTGTG	9	0,807	Si	Int	int	0	2	812205	+	N.A.		🖬 🔝 🎹	9 17 0	-
	17	Un	CATGCACTTCAACT	20	1.000	Fe	Int	int	0	з	90077	+	N.A.	575		1283	17
	18	Un	CATGTCTTCTCGTT	2	1,000	Al	ORF	ORFV	1	4	45892	+	SSB1	YDL229W	i & III	6 12 0	-
	19	Un	CATGTACATACATC	2	1,000	Al	UTR3	ORFv	1	4	99277	+	MRPL11	YDL202W	i 🔠 🎹	6 17 0	
	20	Un	CATGATATCAAAAA	2	0,375	Al	ORF	ORFV	7	4	179499	+	MSH5	YDL154W	🖬 🔝 🛄	6 17 0	-

**Query Results:** A query to the BLAST server at the NCBI is launched with the previosuly described sequence by clicking on this field. In the case of tags matching an intergenic region, this option is very useful to aid the process of gene discovery.

Nucleotide	Protein	Translations	Retrieve results for an RID	
TCA	CCAGTGTTAGGGTCAAGAJ	CAACTGCATCAATACC	GAAGAAGGGGGAATGAGGCAGA	
ACC	CGGTTTCATTGGTGTAAC#	CCACCAGCCAGCGGGG	TGACCAGATGCGAACCAGATT	1
Search CTG	TTTGCCAGTAGGTGTCTAC	AATGGGGGATTTCATTT	TTACCTATTTTTTCAGAGTAC	
CAC	FCCCAAACTTCAGCAGCAA GGAATGATTTTCGATGTAG	TTGGCTCACCGACCGA	ACCCAAGCAACGCAAAGATTT TCAACAAACGCAAAGATTG	ſ
Choose a TDA			N.	
Choose a TRA	NSLATED query - PROTE	EIN database <mark>[blastx]</mark>		
Choose a translation TRA	NSLATED query - PROTE	EIN database <mark>[blastx]</mark>		
Choose a TRA translation TRA	NSLATED query - PROTE	EIN database <mark>[blastx]</mark>		
Choose a TRA translation TRA	NSLATED query - PROTE	EIN database <mark>[blastx]</mark>		
Choose a TRA translation TRA et subsequence From: hoose database nr	NSLATED query - PROTE	EIN database <mark>(blastx)</mark>		
Choose a translation TRA et subsequence From: hoose database nr	NSLATED query - PROTE	EIN database [blastx]		
Choose a translation       TRA         translation       From:         et subsequence       From:         hoose database       nr         Genetic codes       Star	NSLATED query - PROTE To: To: Idard (1)	EIN database [blastx]		

**BLAST Query:** A query to the BLAST server at the NCBI is automatically launched with the flanking sequence that contains the tag. In the case of intergenic tags, BLASTX is launched (this example). In the case of tags matching an ORF, BLASTP is used.

															Gei	поте Мар	ping
	Ma	p y	our TAGs withir	n a Ge	enome	: R	esults										
B	Thi	s sec	tion allows to find <sup>.</sup>	TAGS 1	within a	Ger	ome.										
EXP																	
¥.	Sho	w	50 💌											Downloa	ad all Results	Expression	Map
IEN																	10.0
<u> </u>	Ine	ere a	re 1,657 records t	nat ma	atched t	ne c	uery.3	49 NIDS OUT	t of 1,	622	submitted	TAG	s were toun	α.			Next
NG	N	TC	Seq	Freq	Odds	CI	LocD	LocT	TrPos	Ch	Ini	Str	StdName	SysName	GC TD DS BI	Cn	Info
Idd	1	Un	CATGGTCAACAAAG	2	0,807	Si	Int	int,opORF	0	1	43989	+	N.A.	YAL054C	📑 🖬 🔠 🎹	340	-
E No	2	Un	CATGACACCACCAG	3	1,000	Fe	Int	int,opORF	0	1	140213	+	N.A.	YAL005C	📰 🔝 🛄	3010	-
NOM	з	Un	CATGGAGGAGATTT	2	1.239	Au	ORF	ORFdu	2	1	141074	+	N.A.	YAL004W	i 🔠 🎹	006	-
GE	4	Un	CATGGCGCAGTTGG	5	1,000	Al	ORF	tRNA	1	1	166273	+	N.A.	tA(UGC)A	📰 🔝 🔳	340	-
	5	Un	CATGCTGCATCCTA	4	1.000	Fe	Int	int,opORF	0	1	217023	+	N.A.	YAR060C	📰 🔝 🔝	006	-
B	6	Un	CATGCAAAAGACTG	4	1.000	Al	ORF	ORFdu	1	1	229005	+	N.A.	YAR075W	📰 🔝 🔝	12013	-
XPL	7	Un	CATGCACTTCAACT	20	1,000	Fe	Int	int	0	2	34908	+	N.A.		📑 🖬 🔠 🎹	1283	-
8	8	Un	CATGTACACACACA	2	1,239	Au	UTR3	ORFdu	2	2	119235	+	N.A.	YBL054W	i & III	340	-
UARI	9	Un	C AT GGT AT AT GT GT	2	1,000	Fe	Int	int	0	2	236361	+	N.A.		🖬 🖬 🎹	603	
E.	10	Un	CAT GGT AC AAGGGT	2	0,343	Al	ORF	ORFV	з	2	478284	+	TEF2	YBR118W	i 🔝 🎹	046	-
-	11	Un	CATGAGACAAACTG	2	0.402	Al	ORF	ORFV	2	2	478942	+	TEF2	YBR118W	i & 🏛	61 55 193	
M	12	Un	CATGGAAATCCGGT	2	0,807	Si	Int	int,opORF	0	2	576616	+	N.A.	YBR170C	i & 🛄	303	-
AP	13	Un	CATGTAAAAAAAAA	2	1.000	Fe	Int	int	0	2	622839	+	N.A.	575	📑 🔝 🛄	640	
-	14	Un	CATGGCGTTTGAGG	2	1,000	Al	UTR3	ORFdu	1	2	635140	+	N.A.	YBR206W	i & 🛄	600	-
UARI	15	Un	CATECTCTEETTCT	2	2.667	Al	ORF	ORFdu	з	2	704693	+	N.A.	YBR242W		340	-
186	16	Un	CATGCGTCAGTGTG	9	0,807	Si	Int	int	0	2	812205	+	N.A.		🖹 i 🔠 🎹	9170	-
	17	Un	CATGCACTTCAACT	20	1,000	Fe	Int	int	0	з	90077	+	N.A.	575	i & III	1283	
	18	Un	CATGTCTTCTCGTT	2	1,000	Al	ORF	ORFV	1	4	45892	+	SSB1	YDL229W	i & III	6 12 0	-
	19	Un	CATGTACATACATC	2	1,000	Al	UTR3	ORFV	1	4	99277	+	MRPL11	YDL202W	i & III	6 17 0	
	20	Un	CATGATATCAAAAA	2	0,375	Al	ORF	ORFV	7	4	179499	+	MSH5	YDL154W	i & III	6 17 0	-

**Query Results:** The tag counts provided by the user are shown here (in case the user provided this information). In this case, the counts of three independent experiments were provided and shown.

															Gei	поте Мар	ping
	Ma	р у	our TAGs within	n a Ge	enome	: R	esults										
L OR	Thi	s sec	tion allows to find <sup>-</sup>	TAGS 1	within a	Ger	nome.										
EXE																	
ONE	Sho	w	50											Downloa	nd all Results	Expression	Мар
GEN	The		ra 1 657 racorda t	hat m	stobad t	ha a	wary 3		+ of 1 .	622	cubraittad	TAC	- were four	a			Next
	THE	re a	re 1,637 records t	nacina	atoneu t	ne t	luery. a	149 NIDS 00		022	sabinittea	TAG	s were roun	u.			Next
<sup>D</sup>	N	TC	Seq	Freq	Odds	CI	LocD	LocT	TrPos	Ch	Ini	Str	StdName	SysName	GC TD DS BI	Cn.	Info
APPI	1	Un	CATGGTCAACAAAG	2	0.807	Si	Int	int,opORF	0	1	43989	+	N.A.	YAL054C	i 🔠 🎹	340	-
EM	2	Un	CATGACACCACCAG	3	1,000	Fe	Int	int,opORF	0	1	140213	+	N.A.	YAL005C	i 🔠 🎹	3010	-
NON	з	Un	CATGGAGGAGATTT	2	1.239	Au	ORF	ORFdu	2	1	141074	+	N.A.	YAL004W	📑 🖬 🔠 🎹	006	-
8	4	Un	CATGGCGCAGTTGG	5	1,000	Al	ORF	tRNA	1	1	166273	+	N.A.	tA(UGC)A	i 🔠 🎹	340	-
	5	Un	CATGCTGCATCCTA	4	1,000	Fe	Int	int,opORF	0	1	217023	+	N.A.	YAR060C	🖬 🔝 🎹	006	-
8	6	Un	CATGCAAAAGACTG	4	1,000	Al	ORF	ORFdu	1	1	229005	+	N.A.	YAR075W	i 🔠 🎹	12 0 13	
XPL	7	Un	CATGCACTTCAACT	20	1,000	Fe	Int	int	0	2	34908	+	N.A.		📑 🖬 🔠 🎹	1283	-
2	8	Un	CATGTACACACACA	2	1,239	Au	UTR3	ORFdu	2	2	119235	+	N.A.	YBL054W	i & III	340	-
VARI	9	Un	C AT GGT AT AT GT GT	2	1,000	Fe	Int	int	0	2	236361	+	N.A.	575	🖬 🖬 🎹	603	
Ë.	10	Un	CATGGTACAAGGGT	2	0,343	Al	ORF	ORFV	з	2	478284	+	TEF2	YBR118W	i a 🎞	046	-
	11	Un	CATGAGACAAACTG	2	0.402	Al	ORF	ORFv	2	2	478942	+	TEF2	YBR118W	📑 🖬 🔠 🎹	61 55 193	1.7
Nie i	12	Un	CATGGAAATCCGGT	2	0,807	Si	Int	int,opORF	0	2	576616	+	N.A.	YBR170C	i & 🎹	303	-
IAPI	13	Un	CATGTAAAAAAAA	2	1,000	Fe	Int	int	0	2	622839	+	N.A.	575	📑 🖬 🔠 🎹	640	
22	14	Un	CATGGCGTTTGAGG	2	1,000	Al	UTR3	ORFdu	1	2	635140	+	N.A.	YBR206W	i & 🎹	600	-
LARI	15	Un	CATGCTCTGGTTCT	2	2,667	Al	ORF	ORFdu	з	2	704693	+	N.A.	YBR242W	📑 🖬 🔠 🎹	340	
18	16	Un	CATGCGTCAGTGTG	9	0,807	Si	Int	int	0	2	812205	+	N.A.		i & III	9 17 0	4
	17	Un	CATGCACTTCAACT	20	1.000	Fe	Int	int	0	з	90077	+	N.A.	575		1283	
	18	Un	CATGTCTTCTCGTT	2	1,000	Al	ORF	ORFV	1	4	45892	+	SSB1	YDL229W	i & III	6 12 0	-
	19	Un	CATGTACATACATC	2	1.000	Al	UTR3	ORFv	1	4	99277	+	MRPL11	YDL202W		6 17 0	
	20	Un	CATGATATCAAAAA	2	0,375	Al	ORF	ORFV	7	4	179499	+	MSH5	YDL154W	🖬 🔝 🎹	6 17 0	-

**Query Results:** Each tag can have a label (if the user provided it), which is displayed in this field. This could be useful to highlight some specific tags of interest, or for example, to see the cluster group number of each tag. The user can provide any label here. This field is optional and can be empty (as it is this example case).

															Gei	поте Мар	ping
	Ma	р у	our TAGs within	n a Ge	enome	: R	esults										
LOR	This	s sec	tion allows to find <sup>·</sup>	TAGS V	within a	Ger	nome.										
EX																	_
ONE	Sho	w	50											Downloa	ad all Results	Expression	Мар
GEN	The	rela	re 1 657 records t	bat ma	atched t	he c	wery 3		t of 1 6	:22	submitted	TAG	, were foun	d			Nevt
	1110		1,037 (colds)	ande me		ne e	laci y i a			,	Sabinicea	INO.	5 Wei e Todii	u.			NOAC
NG	N	TC	Seq	Freq	Odds	CI	LocD	LocT	TrPos	Ch	Ini	Str	StdName	SysName	GC TD DS BI	Cn	Info
APP	1	Un	CATGGTCAACAAAG	2	0.807	Si	Int	int,opORF	0	1	43989	+	N.A.	YAL054C	📑 🖬 🔠 🎹	340	1.0
E M	2	Un	CATGACACCACCAG	3	1,000	Fe	Int	int,opORF	0	1	140213	+	N.A.	YAL005C	i & 🎹	3010	*
NON	з	Un	CATGGAGGAGATTT	2	1,239	Au	ORF	ORFdu	2	1	141074	+	N.A.	YAL004W	📑 🖬 🔠 🎹	006	
GEI	4	Un	CATGGCGCAGTTGG	5	1,000	Al	ORF	tRNA	1	1	166273	+	N. A.	tA(UGC)A	i & 🎹	340	-
-	5	Un	CATGCTGCATCCTA	4	1,000	Fe	Int	int,opORF	0	1	217023	+	N. A.	YAR060C	🖹 🖬 🛄	006	
ORE	6	Un	CATGCAAAAGACTG	4	1,000	Al	ORF	ORFdu	1	1	229005	+	N. A.	YAR075W	i & 🎹	12 0 13	-
XPL	7	Un	CATGCACTTCAACT	20	1,000	Fe	Int	int	0	2	34908	+	N. A.	575	📑 🖬 🔠 🎹	1283	
22	8	Un	CATGTACACACACA	2	1,239	Au	UTR3	ORFdu	2	2	119235	+	N.A.	YBL054W	i & 🎹	340	-
UARI	9	Un	C AT GGT AT AT GT GT	2	1,000	Fe	Int	int	0	2	236361	+	N.A.	555	i 🔠 🏛	603	
185	10	Un	CATGGTACAAGGGT	2	0,343	Al	ORF	ORFV	з	2	478284	+	TEF2	YBR118W	i 🔠 🎹	046	-
-	11	Un	CATGAGACAAACTG	2	0.402	Al	ORF	ORFv	2	2	478942	+	TEF2	YBR118W	📑 🖬 🔠 🎹	61 55 193	
NIC	12	Un	CATGGAAATCCGGT	2	0,807	Si	Int	int,opORF	0	2	576616	+	N.A.	YBR170C	i & III	303	-
IAPE	13	Un	C AT GT AAAAAAAAA	2	1,000	Fe	Int	int	0	2	622839	+	N. A.	555	📑 🖬 🔠 🎹	640	
12	14	Un	CATGGCGTTTGAGG	2	1,000	Al	UTR3	ORFdu	1	2	635140	+	N. A.	YBR206W	i 🔠 🎹	600	-
IARI	15	Un	CATGCTCTGGTTCT	2	2.667	Al	ORF	ORFdu	з	2	704693	+	N.A.	YBR242W	📑 🖬 🔠 🎹	340	
IBF	16	Un	CATGCGTCAGTGTG	9	0,807	Si	Int	int	0	2	812205	+	N.A.		i & 🎞	9 17 0	-
	17	Un	CATGCACTTCAACT	20	1,000	Fe	Int	int	0	з	90077	+	N.A.		i 🔠 🎞	1283	
	18	Un	CATGTCTTCTCGTT	2	1,000	Al	ORF	ORFV	1	4	45892	+	SSB1	YDL229W	i & 🎹	6 12 0	-
	19	Un	CATGTACATACATC	2	1.000	Al	UTR3	ORFV	1	4	99277	+	MRPL11	YDL202W	i 🔠 🏛	6 17 0	
	20	Un	CATGATATCAAAAA	2	0,375	Al	ORF	ORFV	7	4	179499	+	MSH5	YDL154W	i & 🎞	6 17 0	-

**Query Results:** An expression map with the counts of all the mapped tags onto the genome is available by following the highlighted button.



**Expression Map:** An expression map with the counts of all the mapped tags onto the genome is displayed. This is useful to detect transcriptionally active regions in a chromosome.



**Expression Map:** The user can select a single experimental condition or to display all of them simultaneously (as it is the case in this example). The 'show' button on the right must be clicked to make effective any change of parameters.



*Expression Map:* The user can select a range of expression level. Only the tags which counts belong to this expression range will be displayed. The 'show' button on the right must be clicked to make effective any change of parameters.



**Expression Map:** The user can select two types of scale for the Y axis of the graph: linear or logarithmic. The 'show' button on the right must be clicked to make effective any change of parameters.

SAGExplore	
Expression Map	
Experimental Condition: All 💌 Expression Level: 0 to 1000 (range: 0-1000) Y-Axis Scale: Logarithmic 💌 Show	
Organism: Sacharomyces cerevisiae Fragment Displayed: 490,001 - 497,000	
100 Kb Chronosone: 2 Length: 813,178 bp	
1000	
100	trand
i 10	÷
2 10	and
100	- 54
1000	
491000 492000 493000 494000 495000 496000 Sequence (hp)	
Keys:	
Chromosome*	
Watson (+) Strand 📕 Fragment Displayed 📕 TAG of High Confidence	
Crick (-) Strand Centromer	

*Expression Map:* The tags mapped are graphically shown in the chromosome.

SAGExplore
Expression Map
Experimental Condition: All 💌 Expression Level: 0 to 1000 (range: 0-1000) Y-Axis Scale: Logarithmic 💌 Show
Organism: Sacharomyces cerevisiae Fragment Displayed: 490,001 - 497,000
100 Kb Chromosome: 2 Length: 813,178 bp
1000
10 10 F
10 10 10
100 1000 492000 493000 494000 495000 496000
Sequence (bp)
Keys: Chronosone:
Watson (+) Strand       IFragment Displayed       TAG of High Confidence         Crick (-) Strand       Centromer       TAG of Undefined Confidence

**Expression Map:** The start and end coordinates of the chromosome fragment displayed are given. Also, in the chromosome, the selected region is highlighted. The graph below shows the counts of each tag for each experimental condition, as supplied by the user.

SAGExplore	
Expression Map	
Experimental Condition: All 💌 Expression Level: 0 to 1000 (range: 0-1000) Y-Axis Scale: Logarithmic 💌 Show	
Organism: Sacharomyces cerevisiae Fragment Displayed: 490,001 - 497,000	
	(-) Strand (+) Strand
1000 491000 492000 493000 494000 495000 496000 491000 5equence (bp)	
Keys:	
Chronosone:         Watson (+) Strand       Fragment Displayed         Crick (-) Strand       Centromer         TAG of High Confidence         TAG of Undefined Confidence         TAG of Undefined Confidence	

*Expression Map:* By clicking on a given tag count, several tag details are given in a pop-up window.

SAGExplore
------------

TAG	Detail

Frequency	Class Score	TAG Class	Odds Ratio
1	0,048	Pt	0,048
Confidence	Chromosome	Start Coord.	End Coord.
Hi	1	282	295
Strand	Location	Intron?	UTR Pred.
+	UTR5	N	Р
Туре	Position	Distance	Poly-A Next?
2	3	476	N
istance Poly-A	Length Poly-A	Feature Type	Feature Name
0	0	ORFdu	Dubious
Systemat	ic Name	Standa	rd Name
YALO	59W	N	.A.

*Tag details:* Many details about the tag are provided here. See the online help for an explanation of each field meaning.

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# This is the end of the SAGExplore web server tutorial for Module II: Genome Mapping Any comments or inquiries, please contact us