BLAST ®

Basic Local Alignment Search Tool

NCBI/ BLAST/ blastx/ Formatting Results - B8BHYJXD014

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Blast report description

Nucleotide Sequence (605 letters)

RID <u>B8BHYJXD014</u> (Expires on 02-06 12:08 pm)

Query ID | lcl|Query_59009

Description None

Molecule type nucleic acid

Query Length 605

Database Name nr

Description All non-redundant GenBank CDS

translations+PDB+SwissProt+PIR+PRF

excluding environmental samples from

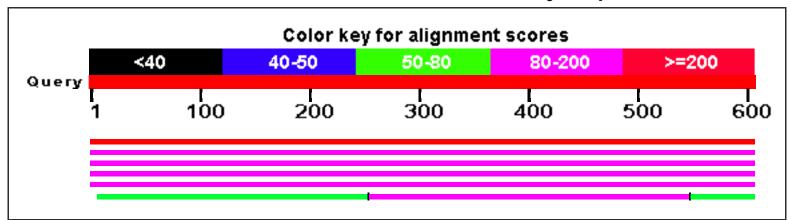
WGS projects

Program BLASTX 2.3.1+

□ Graphic Summary

No putative conserved domains have been detected

Distribution of 166 Blast Hits on the Query Sequence



Descriptions

Sequences producing significant alignments:

Description	Max score	Total score	Query cover	E value	Ident	Accession
mucin 14A [Drosophila melanogaster]	205	20186	99%	2e-56	97%	NP_727928.3
GD17263 [Drosophila simulans]	131	1119	99%	5e-31	71%	XP_002105717.1
uncharacterized protein Dere_GG27179 [Drosophila erecta]	115	1353	99%	1e-25	69%	XP_015011493.1
uncharacterized protein Dyak_GE27476 [Drosophila yakuba]	98.6	247	99%	4e-21	68%	XP_015044596.1
uncharacterized protein Dyak_GE28509 [Drosophila yakuba]	99.8	309	99%	8e-21	67%	XP_015045967.1
uncharacterized protein Dsimw501_GD28225 [Drosophila simulans]	100	215	98%	1e-20	75%	KMZ10072.1

■ <u>Alignments</u>

mucin 14A [Drosophila melanogaster]

Sequence ID: ref|NP_727928.3| Length: 16223 Number of Matches: 129

▶ See 1 more title(s) Range 1: 5349 to 5549

Score	E	xpect Method	Identities	Positives	Gaps	Frame
205 bits	(522) 26	e-56() Compositional matrix adjust.	195/201(97%)	196/201(97%)	0/201(0%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI NIFSSPSLNEDNISQEDTRTL ISVI				
Sbjct	5349	NIFSSPSLNEDNISQEDTRTLPISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	5409	TTEESSSFQESSAEENQTTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE				
Sbjct	5469	SVPQSIATANSLLTGSSAEEQTAQE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSQSSSQAKNIFSS S				
Sbjct	5529	TLSTSLSQSSSQAKNIFSSQS 554	19			

Range 2: 5737 to 5937

Score	E	xpect Method	Identities	Positives	Gaps	Frame
201 bits(511) 7e	e-55() Compositional matrix adjust.	192/201(96%)	195/201(97%)	0/201(0%)	-2
Features	:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVPONIFSSPSLNEDNISQEDTRTL ISVPONISQEDTRTL ISVPONISQUE ISVPONISQ				
Sbjct	5737	NIFSSPSLNEDNISQEDTRTLPISVP				
Query	424	TTeesssfqessaeENQMTEVPWtls			ISQEDTRTL SOEDTRTL	
Sbjct	5797	TTEESSSFQESSAEENQMTEVPWTLS'				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPOSIATANSLLTGSSAEEOTAOEE				
Sbjct	5857	SVPQSIATANSLLTGSSAEEQTAQEE'				

Range 3: 6553 to 6753

Score	Е	xpect Method	Identities	Positives	Gaps	Frame
201 bits	(511) 76	e-55() Compositional matrix adjust.	192/201(96%)	194/201(96%)	0/201(0%)	-2
Features	3 :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVE NIFSSPSLNEDNISQEDTRTL ISVE				
Sbjct	6553	NIFSSPSLNEDNISQEDTRTLPISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	6613	TTEESSSFQESSAEENQMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE				
Sbjct	6673	SVPQSIATANSLLTGSSAEEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTS SOSSS+ KNIFSSPS				
Sbjct	6733	TLSTSPSQSSSKTKNIFSSPS 675	53			

Range 4: 5834 to 6034

Score	E	Expect Method	Identities	Positives	Gaps	Frame
197 bits	(502) 1	e-53() Compositional matrix adjust.	188/201(94%)	191/201(95%)	0/201(0%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP NIFSS S+NED SQEDTRTLSISVP				
Sbjct	5834	NIFSSQSVNEDKTSQEDTRTLSISVP				
Query	424	TTeesssfqessaeENQMTEVPWtls TTEESSSFQ+SSAEENQMTEVPWTLS				
Sbjct	5894	TTEESSSFQKSSAEENQMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE				
Sbjct	5954	SVPQSIATANSLLTGSSAEEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 T+ TSLSQSSS KNIFSS S				
Sbjct	6014	TVLTSLSQSSS KNIFSS S TVLTSLSQSSSSITKNIFSSQS 603	4			

Range 5: 7678 to 7878

Score	Е	xpect Method	Identities	Positives	Gaps	Frame
197 bits	(502) 16	e-53() Compositional matrix adjust.	188/201(94%)	191/201(95%)	0/201(0%)	-2
Features:						
Query	604	NIFSSPSLNEDNISQEDTRTLSISVE NIFSSPS NEDNISQEDTRTL ISVE				
Sbjct	7678	NIFSSPS NEDNISQEDIRIL ISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls		NIFSSPSLNEDN NIFSS S+NED	ISQEDTRTL SOEDTRTL	
Sbjct	7738	TTEESSSFQESSAEENQMTEVPWTVL				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE				
Sbjct	7798	SVPQSIATANSLLTGSSAEEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSQSSSQAKNIFSSPS				
Sbjct	7858	TLSTSLSQSSSQAKNIFSSPS 787	78			

Range 6: 5446 to 5646

Score	Expect	Method	Identities	Positives	Gaps	Frame
196 hits(499)	36-53()	Compositional matrix adjust	191/201(95%)	193/201(96%)	0/201(0%)	-2

Features: NIFSSPSLNEDNISQEDTRTLSISVPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQL NIFSS SLNEDNISQEDTRT SISVPQSIATANSLLTGSSAEEQTAQEETSEHSKSLPQL NIFSSQSLNEDNISQEDTRTPSISVPQSIATANSLLTGSSAEEQTAQEETSEHSKSLPQL 425 Query 604 Sbjct 5446 5505 TTeesssfqessaeEnQMTEVPWtlstslsqsssQAKNIFSSPSLNEDNISQEDTRTLSI TTEESSSFQ+SSAEENQMTEVPWTLSTSLSQSSSQAKNIFSS SLNEDNISQEDTRT SI TTEESSSFQKSSAEENQMTEVPWTLSTSLSQSSSQAKNIFSSQSLNEDNISQEDTRTPSI Query 424 245 Sbjct 5506 5565 SVPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQLTTeesssfqessaeENQMTEVPW SVPQSIATANSLLTGSSAEEQTAQEETSEHSKSLPQLTTEESSSFQESSAEENQ TEVPW SVPQSIATANSLLTGSSAEEQTAQEETSEHSKSLPQLTTEESSSFQESSAEENQTTEVPW Query 244 65 5566 Sbjct 5625 Query 64 tlstslsqsssQAKNIFSSPS TLSTS SQSSS+ KNIFSS S TLSTSPSQSSSKTKNIFSSQS Sbjct 5626 5646

Range 7: 6028 to 6228

Score	E	xpect Method	Identities	Positives	Gaps	Frame
196 bits	(498) 46	e-53() Compositional matrix adjust.	190/201(95%)	193/201(96%)	0/201(0%)	-2
Features	3 :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI NIFSS S+NED SQEDTRTLSISVI				
Sbjct	6028	NIFSSQSVNEDKTSQEDTRTLSISVI				
Query	424	TTeesssfqessaeENQMTEVPWtls	stslsqsssQAKI	NIFSSPSLNEDN	ISQEDTRTL	SI 245
Sbjct	6088	TTEESSSFQKSSAEENQMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE				
Sbjct	6148	SVPQSIATANSLLTGSSAEEQTAQE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSQSSSQAKNIFSS S				
Sbjct	6208	TLSTSLSQSSSQAKNIFSSQS 622	28			

Range 8: 7775 to 7975

Score	E	Expect Method	Identities	Positives	Gaps	Frame
195 bits	(496) 7	e-53() Compositional matrix adjust.	186/201(93%)	188/201(93%)	0/201(0%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP				
Sbjct	7775	NIFSS S+NED SQEDTRTLSISVP NIFSSQSVNEDKTSQEDTRTLSISVP				
Query	424	TTeesssfqessaeENQMTEVPWtls TTEESSSFQ+SSAEENQMTEVPWTLS				
Sbjct	7835	TTEESSSFQKSSAEENQMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE				
Sbjct	7895	SVPQSIATANSLLTGSSAEEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTS QSSSQAKN FSS S				
Sbjct	7955	TLSTS QSSSQAKN FSS S TLSTSQFQSSSQAKNTFSSQS 797	5			

Range 9: 5931 to 6131

Score	E	Expect	Method	Identities	Positives	Gaps	Frame
194 bits	(493) 2	e-52()	Compositional matrix adjust.	187/201(93%)	190/201(94%)	0/201(0%)	-2
Feature	s:						
Query	604		SSPSLNEDNISQEDTRTLSISVP SSPS NEDNISQEDTRTL ISVP				
Sbjct	5931		SSPSSNEDNISQEDTRTLPISVP				
Query	424		esssfqessaeENQMTEVPWtls ESSSFOESSAEENOMTEVPWT+			ISQEDTRTI SOEDTRTI	
Sbjct	5991		ESSSFÕESSAEENÕMTEVPWTVL				
Query	244	SVPC	SIATANSLLTGssaeeqtaqee SIATANSLLTGSSAEEOTAOEE	tsEHSKSLPOLT	Teesssfqess	aeENOMTEV	7PW 65
Sbjct	6051		SIATANSLLTGSSAEEQTAQEE				

Query 64 tlstslsqsssQAKNIFSSPS 2 TLSTSLSQSSSQAKNIFSS S Sbjct 6111 TLSTSLSQSSSQAKNIFSSQS 6131

Range 10: 4767 to 4967

Score	E	expect Method	Identities	Positives	Gaps	Frame
194 bits	(493) 2	e-52() Compositional matrix adjust.	189/201(94%)	190/201(94%)	0/201(0%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP NIFSS S+NED SQEDTRTL ISVP				
Sbjct	4767	NIFSSQSVNEDKTSQEDTRTLPISVP				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	4827	TTEESSSFLESSAEENQTTEVPWTLS	~ ~		~	
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE				
Sbjct	4887	SVPQSIATANSLLTGSSAEEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSOSSSOAKNIFSS S				
Sbjct	4947	TLSTSLSQSSSQAKNIFSSQS 496	7			

Range 11: 5252 to 5452

Score	E	expect Method	Identities	Positives	Gaps F	rame
194 bits	(493) 26	e-52() Compositional matrix adjust.	189/201(94%)	190/201(94%)	0/201(0%) -2	2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI NIFSS S+NED SQEDTRTL ISVI				
Sbjct	5252	NIFSSQSVNEDKTSQEDTRTLPISVI				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	5312	TTEESSSF ESSAEENQ TEVPWILS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee				
Sbjct	5372	SVPQSIATANSLLTGSSAEEQTAQEI SVPQSIATANSLLTGSSAEEQTAQEI				
Query	64	tlstslsqsssQAKNIFSSPS 2				
Sbjct	5432	TLSTSLSQSSSQAKNIFSS S TLSTSLSQSSSQAKNIFSSQS 545	52			

Range 12: 6125 to 6325

Score	E	Expect Method	Identities	Positives	Gaps	Frame
193 bits	(491) 4	e-52() Compositional matrix adjust.	190/201(95%)	192/201(95%)	0/201(0%)	-2
Features:						
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI				
Sbjct	6125	NIFSS SLNEDNISQEDTRT SISVI NIFSSQSLNEDNISQEDTRTPSISVI				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	6185	TTEESSSFQKSSAEENQMTEVPWTL				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE				
Sbjct	6245	SVPQSIATANSLLTGSSAEEQTAQEI				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTS SQSSS+ KNIFSS S				
Sbjct	6305	TLSTSPSQSSSKTKNIFSSQS 632	25			

Range 13: 8454 to 8654

Score	Expect	Method	Identities	Positives	Gaps	Frame
191 bits(485)	2e-51()	Compositional matrix adjust.	182/201(91%)	186/201(92%)	0/201(0%)	-2
Features:						

Query	604	NIFSSPSLNEDNISQEDTRTLSISVPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQL NIFSS S+NED SQEDTRTLSISVPQS ATANSLLTGSSAEEQTAQEETSEHSKSLPQL	425
Sbjct	8454	NIFSSQSVNEDKTSQEDTRTLSISVPQSFATANSLLTGSSAEEQTAQEETSEHSKSLPQL	8513
Query	424	TTeesssfqessaeENQMTEVPWtlstslsqsssQAKNIFSSPSLNEDNISQEDTRTLSI TTEESSSFOESSAEENOMTEVPWT+ TSLSOSSS KNIFSS S+NED SOEDTRTLSI	245
Sbjct	8514	TTEESSSFQESSAEENQMTEVPWTVLTSLSQSSS KNIFSS STNED SQEDIRILSI	8573
Query	244	SVPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQLTTeesssfqessaeENQMTEVPW SVPQS ATANSLLTGSSAEEQTAQEETSEHSKSLPQLTTEESSSFQESSAEENQMTEVPW	65
Sbjct	8574	SVPQSFATANSLLTGSSAEEQTAQEETSEHSKSLPQLTTEESSSFQESSAEENQMTEVPW	8633
Query	64	tlstslsqsssQAKNIFSSPS 2	
Sbjct	8634	T+ TSLSÕSSS KNIFSS S TVLTSLSÕSSSITKNIFSSÕS 8654	

Range 14: 4670 to 4870

Score	E	expect Method	Identities	Positives	Gaps	Frame
191 bits	(485) 2	e-51() Compositional matrix adjust.	185/201(92%)	188/201(93%)	0/201(0%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVF NIFSSPSLNEDNISQEDTRTL ISVF				
Sbjct	4670	NIFSSPSLNEDNISQEDTRTLPISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls			ISQEDTRTI SÕEDTRTI	
Sbjct	4730	TTEESSSFLESSAEENQTTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIAT NSLLTGSSAEEQTAQEE				
Sbjct	4790	SVPQSIATINSLLTGSSAEEQTAQEE				
Query	64	tlstslsgsssQAKNIFSSPS 2 TLSTSLSOSS OAKNIFSSPS				
Sbjct	4850	TLSTSLSQSS QARNIFSSFS 487	0			

Range 15: 8648 to 8848

Score	E	Expect Method	Identities	Positives	Gaps	Frame
191 bits	(484) 3	e-51() Compositional matrix adjust.	181/201(90%)	186/201(92%)	0/201(0%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS S+NED SOEDTRTLSISV	POSIATANSLLTO POS AT N LLTO			
Sbjct	8648	NIFSSQSVNEDKTSQEDTRTLSISV				
Query	424	TTeesssfqessaeENQMTEVPWtl TTEE SS QESSAEENQMTEVPWT+			ISQEDTRTI SÕEDTRTI	
Sbjct	8708	TTEERSSLQESSAEENQMTEVPWTV				
Query	244	SVPQSIATANSLLTGssaeeqtaqe SVPOSIATANSLLTGSSAEEOTAOE				
Sbjct	8768	SVPQSIATANSLLTGSSAEEQTAQE:				
Query	64	tlstslsgsssQAKNIFSSPS 2 TLSTSLSQSSSQAKNIFSSPS				
Sbjct	8828	TLSTSLSQSSSQAKNIFSSPS 88	48			

Range 16: 8842 to 9042

Score	E	Expect Method	Identities	Positives	Gaps	Frame
190 bits	(483) 3	e-51() Compositional matrix adjust.	186/201(93%)	188/201(93%)	0/201(0%)	-2
Feature	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVE				
Sbjct	8842	NIFSSPS NEDNISQEDTRTL ISVE NIFSSPSSNEDNISQEDTRTLPISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls			ISQEDTRTL SOEDTRTL	
Sbjct	8902	TTEESSSFQESSAEENQTTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQS AT N LLTGSSAEEQTAQEE				
Sbjct	8962	SVPQSFATTNRLLTGSSAEEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSOSSSOAKNIFSS S				
Sbjct	9022	TLSTSLSQSSSQAKNIFSSQS 904	2			

Score	Е	expect Method	Identities	Positives	Gaps	Frame
190 bits	(483) 46	e-51() Compositional matrix adjust.	186/201(93%)	189/201(94%)	0/201(0%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI NIFSSPS NEDNISQEDTRTL ISVI				
Sbjct	8163	NIFSSPS NEDNISQEDIRIL 13VI				
Query	424	TTeesssfqessaeENQMTEVPWtls			ISQEDTRTI SOEDTRTI	
Sbjct	8223	TTEESSSFQESSAEENQTTEVPWTLS			~	
Query	244	SVPQSIATANSLLTGssaeeqtaqee				
Sbjct	8283	SVPQSIAT NSLLTGSSAEEÕTAÕEI SVPQSIATTNSLLTGSSAEEQTAÕEI				
Query	64	tlstslsqsssQAKNIFSSPS 2				
Sbjct	8343	T+ TSLSQSSS KNIFSS S TVLTSLSQSSSITKNIFSSQS 830	63			

Range 18: 4864 to 5064

Score	Е	xpect Method	Identities	Positives	Gaps	Frame
190 bits	(482) 6	e-51() Compositional matrix adjust.	188/201(94%)	190/201(94%)	0/201(0%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVE				
Sbjct	4864	NIFSSPSLNEDNISQEDTRTL ISVENIFSSPSLNEDNISQEDTRTLPISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	4924	TTEESSSFQESSAEENQTTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATA+SLLTGSSAEEQTAQEE				
Sbjct	4984	SVPQSIATAHSLLTGSSAEEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTS SQSSS+ KNIFSS S				
Sbjct	5044	TLSTSPSQSSSKTKNIFSSQS 506	54			

Range 19: 8551 to 8751

Score	E	xpect Method	Identities	Positives	Gaps	Frame
189 bits	(481) 66	e-51() Compositional matrix adjust.	178/201(89%)	183/201(91%)	0/201(0%)	-2
Features	S:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVE				
Sbjct	8551	NIFSS S+NED SQEDTRTLSISVE NIFSSQSVNEDKTSQEDTRTLSISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls			ISQEDTRTI SOEDTRTI	
Sbjct	8611	TTEESSSFQESSAEENQMTEVPWTVI				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQS AT N LLTGSSAEEQTAQEE	etsEHSKSLPQLT	Teesssigess	aeENOMTE\	PW 65
Sbjct	8671	SVPQS AT N HEIGSSAEEQTAQEE SVPQSFATTNRLLTGSSAEEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 T+ TSLSOSSS+ KNIFSS S				
Sbjct	8731	TVLTSLSQSSSKTKNIFSSQS 875	51			

Range 20: 9133 to 9333

Score	Ex	cpect	Method	Identities	Positives	Gaps	Frame	_
189 bits	(481) 7e	:-51()	Compositional matrix adjust.	186/201(93%)	189/201(94%)	0/201(0%)	-2	_
Features	s:							
Query	604		SPSLNEDNISQEDTRTLSISVPO		Ssaeeqtaqee			25

Sbjct	9133	NIFSSQSLNEDNISQEDTRTPSISVPQSSTTANRLLTGSIAKEQTAQEETSELSKSLPQL	9192
Query	424	TTeesssfqessaeENQMTEVPWtlstslsqsssQAKNIFSSPSLNEDNISQEDTRTLSI TTEESSSFQESS EENQMTEVPWTLSTSLSQSSS+ KNIFSSPSL EDNISQEDTRTLSI	245
Sbjct	9193	TTEESSSFQESS EENQMTEVPWILSTSLSQSSSF KNIFSSPSL EDNISQEDIRILSI TTEESSSFQESSVEENQMTEVPWILSTSLSQSSSEPKNIFSSPSLYEDNISQEDTRILSI	9252
Query	244	SVPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQLTTeesssfqessaeENQMTEVPW	65
Sbjct	9253	SVPQSIATANSLLTGSSAEEQTAQEETSE S SLPQLTTEESSSFQ+SSAEENQMTEVPW SVPQSIATANSLLTGSSAEEQTAQEETSELSNSLPQLTTEESSSFQKSSAEENQMTEVPW	9312
Query	64	tlstslsqsssQAKNIFSSPS 2	
Sbjct	9313	TLSTSLSQSSSQAKNIFSSPS TLSTSLSQSSSQAKNIFSSPS 9333	

Range 21: 5640 to 5840

Score	E	xpect Method	Identities	Positives	Gaps	Frame
189 bits(479) 16	e-50() Compositional matrix adjust.	186/201(93%)	188/201(93%)	0/201(0%)	-2
Features	:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS S+NED SQEDTRTL ISV				
Sbjct	5640	NIFSSQSVNEDKTSQEDTRTLPISV				
Query	424	TTeesssfqessaeENQMTEVPWtl				
Sbjct	5700	TTEESSSFLESSAEENQTTEVPWTL				
Query	244	SVPQSIATANSLLTGssaeeqtaqe SVPQSIATANSLLTGSSAEEQTAQE				
Sbjct	5760	SVPQSIATANSLLTGSSAEEQTAQE:				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSOSSS+ KNIFSS S				
Sbjct	5820	TLSTSLSQSSSKTKNIFSSQS 58	40			

Range 22: 7872 to 8072

Score	E	xpect	Method	Identities	Positives	Gaps	Frame
189 bits(479) 26	e-50()	Compositional matrix adjus	st. 179/201(89%)	181/201(90%)	0/201(0%)	-2
Features	:						
Query	604		SPSLNEDNISQEDTRTLSIS				
Sbjct	7872		SSPSSNEDNISQEDTRTLPIS				
Query	424		esssfqessaeENQMTEVPWt C SS QESSAEENQMTEVPWT			ISQEDTRTI SOEDTRTI	
Sbjct	7932		RSSLQESSAEENQMTEVPWT			~ ~	
Query	244	SVPC S PC	SIATANSLLTGssaeeqtaq S TAN LLTGS AEEQTAQ				
Sbjct	7992		SSTTANRLLTGS AELQTAQ				
Query	64		slsqsssQAKNIFSSPS 2				
Sbjct	8052			072			

Range 23: 8066 to 8266

Score	E	xpect Method	Identities	Positives	Gaps	Frame
188 bits	(478) 20	e-50() Compositional matrix adjust.	188/201(94%)	191/201(95%)	0/201(0%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP NIFSS S+NED SQEDTRTLSISVP				
Sbjct	8066	NIFSSQSVNEDKTSQEDTRTLSISVP				
Query	424	TTeesssfqessaeENQMTEVPWtls TTEESSSFQ+SSAEENQMTEVPWTLS				
Sbjct	8126	TTEESSSFQKSSAEENQMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE				
Sbjct	8186	SVPQSIATANSLLTGSSAEEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSQSSS+ KNIFSS S				
Sbjct	8246	TLSTSLSQSSSKTKNIFSSQS 826	6			

Score	E	xpect Method	Identities	Positives	Gaps	Frame
188 bits	(478) 2	e-50() Compositional matrix adjust.	180/201(90%)	183/201(91%)	0/201(0%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVE NIFSS S+NED SQEDTRTLSISVE				
Sbjct	8357	NIFSSQSVNEDKTSQEDTRTLSISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls	tslsqsssQAKI	NIFSSPSLNEDN NIFSS S+NED	ISQEDTRTI SÕEDTRTI	
Sbjct	8417	TTEERSSLQESSAEENQMTEVPWTLS			~	
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQS ATANSLLTGSSAEEQTAQEE				
Sbjct	8477	SVPÕSFATANSLLTGSSAEEÕTAÕEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 T+ TSLSQSSS KNIFSS S				
Sbjct	8537	TVLTSLSQSSSITKNIFSSQS 855	57			

Range 25: 8745 to 8945

Score	E	xpect Method	Identities	Positives	Gaps	Frame
188 bits	(478) 26	e-50() Compositional matrix adjust.	188/201(94%)	191/201(95%)	0/201(0%) -	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI				
Sbjct	8745	NIFSS S+NED SQEDTRTLSISVI NIFSSQSVNEDKTSQEDTRTLSISVI				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	8805	TTEESSSFQ+SSAEENQMTEVPWTL				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEI				
Sbjct	8865	SVPQSIATANSLLTGSSAEEQTAQEI				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSQSSS+ KNIFSS S				
Sbjct	8925	TLSTSLSQSSS+ KN1FSS S TLSTSLSQSSSKTKN1FSSQS 894	45			

Range 26: 7113 to 7313

Score	E	Expect Method	Identities	Positives	Gaps	Frame
188 bits	(478) 2	e-50() Compositional matrix adjust.	185/201(92%)	190/201(94%)	0/201(0%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVENIFSS S+NED SQEDTRTLSISVE				
Sbjct	7113	NIFSSQSVNEDKTSQEDTRTLSISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	7173	TTEESSSFQKSSAEENQMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee				
Sbjct	7233	SVPQPIATANSLLTGSSAEEQTAQEE				
Query	64	tlstslsgsssQAKNIFSSPS 2 TLSTSLSOSSS+ KNIFS+ S				
Sbjct	7293	TLSTSLSQSSS+ KN1FS+ S TLSTSLSQSSSKTKN1FSNQS 731	13			

Range 27: 8260 to 8460

Score	l	Expect	Method	Identities	Positives	Gaps	Frame
188 bits	(477) 2	2e-50()	Compositional matrix adjust.	180/201(90%)	183/201(91%)	0/201(0%)	-2
Feature	s:						
Query	604		SPSLNEDNISQEDTRTLSISVP SSS+NED SQEDTRTLSISVP				
Sbjct	8260		SQSVNEDKTSQEDTRTLSISVP				
Query	424	TTee	esssfqessaeENQMTEVPWtls	tslsqsssQAKN	NIFSSPSLNEDN:	ISQEDTRTL	SI 245

Sbjct	8320	TTEESSSFQESSAEENQMTEVPWT+ TSLSQSSS KNIFSS S+NED SQEDTRTLSI TTEESSSFQESSAEENQMTEVPWTVLTSLSQSSSITKNIFSSQSVNEDKTSQEDTRTLSI	8379
Query	244	SVPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQLTTeesssfqessaeENQMTEVPW SVPQS AT N LLTGSSAEEQTAQEETSEHSKSLPQLTTEE SS QESSAEENQMTEVPW	65
Sbjct	8380	SVPQSFATTNRLLTGSSAEEQTAQEETSEHSKSLPQLTTEERSSLQESSAEENQMTEVPW	8439
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSOSSS KNIFSS S	
Sbjct	8440	TLSTSLSQSSS KNIFSS S TLSTSLSQSSSITKNIFSSQS 8460	

Range 28: 7210 to 7410

Score	E	xpect Method	Identities	Positives	Gaps	Frame
187 bits	(475) 4	e-50() Compositional matrix adjust.	185/201(92%)	190/201(94%)	0/201(0%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP NIFSS SLNEDNISQEDTRTLSISVP				
Sbjct	7210	NIFSSQSLNEDNISQEDTRTLSISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls			ISQEDTRTI SOEDTRTI	
Sbjct	7270	TTEESSSFQESSAEENQMTEVPWTLS				
Query	244	SVPOSIATANSLLTGssaeeqtaqee SVPOSIAT NSLLTGSSAEEOTAOEE				
Sbjct	7330	SVPQSIATTNSLLTGSSAEEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSQSSS+ KNIFSS S				
Sbjct	7390	TLSTSLSQSSSEPKNIFSSQS 741	0			

Range 29: 6222 to 6421

Score	E	xpect Method	Identities	Positives	Gaps	Frame
187 bits	(475) 56	e-50() Compositional matrix adjust.	186/200(93%)	188/200(94%)	0/200(0%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS SLNEDNISQEDTRT SISV				
Sbjct	6222	NIFSSQSLNEDNISQEDTRTPSISV				
Query	424	TTeesssfqessaeENQMTEVPWtl			ISQEDTRTI SOEDTRTI	
Sbjct	6282	TTEESSSFQESSAEENQTTEVPWTL			~	
Query	244	SVPQSIATANSLLTGssaeeqtaqe				
Sbjct	6342	SVPQSIATTNSLLTGSSAEEQTAQE:				
Query	64	tlstslsqsssQAKNIFSSP 5 TLSTSLSQSS QAKNIFSSP				
Sbjct	6402	TLSTSLSQSS QARNIFSSP 642	1			

Range 30: 8939 to 9139

Score	E	expect Method	Identities	Positives	Gaps	Frame
187 bits	(474) 76	e-50() Compositional matrix adjust.	183/201(91%)	185/201(92%)	0/201(0%) -	-2
Features:						
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI NIFSS S+NED SQEDTRTLSISVI				
Sbjct	8939	NIFSSQSVNEDKTSQEDTRTLSISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls	stslsqsssQAKN	NIFSSPSLNEDN	ISQEDTRTL:	SI 245
Sbjct	8999	TTEERSSLQESSAEENQMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQS TAN LLTGS AEEQTAQEE				
Sbjct	9059	SVPQSSTTANRLLTGSIAEEQTAQEI				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSQSSS+ KNIFSS S				
Sbjct	9119	TLSTSLSQSSSEPKNIFSSQS 913	39			

Range 31: 9230 to 9428

Score	E	expect Method	Identities	Positives	Gaps	Frame
186 bits	(473) 8	e-50() Compositional matrix adjust.	186/199(93%)	190/199(95%)	0/199(0%)	-2
Feature	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI				
Sbjct	9230	NIFSSPSL EDNISQEDTRTLSISVI NIFSSPSLYEDNISQEDTRTLSISVI				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	9290	TTEESSSFQ+SSALENOMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE				
Sbjct	9350	SVPQSIATANSLLTGSSAEEQTAQEI				
Query	64	tlstslsqsssQAKNIFSS 8 TLSTS SOSSS+ KNIFSS				
Sbjct	9410	TLSTSPSQSSSKTKNIFSS 9428				

Range 32: 6456 to 6656

Score	E	Expect Method	Identities	Positives	Gaps	Frame
186 bits	(472) 1	e-49() Compositional matrix adjust.	186/201(93%)	188/201(93%)	0/201(0%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVE NIFSS SLNEDNISQEDTRT SISV				
Sbjct	6456	NIFSSQSLNEDNISQEDTRTPSISVS				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	6516	TTEESSSFQESSAEENQTTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE				
Sbjct	6576	SVPQSIATANSLLTGSSAEEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSQSSS+ KNIFSS S				
Sbjct	6636	TLSTSLSQSSS KNIFSS S TLSTSLSQSSSEPKNIFSSQS 665	6			

Range 33: 5543 to 5743

Score	E	xpect Method	Identities	Positives	Gaps	Frame
184 bits	(468) 36	e-49() Compositional matrix adjust.	184/201(92%)	186/201(92%)	0/201(0%)	-2
Features	S:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP NIFSS SLNEDNISQEDTRT SISVP				
Sbjct	5543	NIFSSQSLNEDNISQEDTRTPSISVP				
Query	424	TTeesssfqessaeENQMTEVPWtls TTEESSSFOESSAEENO TEVPWTLS			ISQEDTRTL SOEDTRTL	
Sbjct	5603	TTEESSSFQESSAEENQTTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPOSIAT NSLLTGSSAEEOTAOEE				
Sbjct	5663	SVPQSIATTNSLLTGSSAEEQTAQEE				
Query	64	tlstslsgsssQAKNIFSSPS 2 TLSTSLSQSS Q KNIFSSPS				
Sbjct	5723	TLSTSLSQSS Q KNIFSSFS TLSTSLSQSSLQGKNIFSSPS 574	3			

Range 34: 4379 to 4579

Score	E	Expect	Method	Identities	Positives	Gaps	Frame
184 bits	(467) 5	ie-49()	Compositional matrix adjust.	181/201(90%)	187/201(93%)	0/201(0%)	-2
Features	s:						
Query	604		SSPSLNEDNISQEDTRTLSISVP SS S+NED SQEDTRTL ISVP				
Sbjct	4379		SSQSVNEDKTSQEDTRTLPISVP				
Query	424		esssfqessaeENQMTEVPWtls ESSSFQESSAEENQMTEVPWT+S			ISQEDTRTL SÕEDTRTL	
Sbjct	4439		ESSSFQESSAEENQMTEVPWTVS				

Query Sbjct		SVPQSIATANSLLTGSSAEEQT.	aqeetsEHSKSLPQLTTeesssfqessaeENQMTEVPW AQEETSE SKSLPQLTTEESSSFQESSAEENQMTEVPW AQEETSELSKSLPQLTTEESSSFQESSAEENQMTEVPW	65 4558
Query	64	tlstslsqsssQAKNIFSSPS	2	
Sbjct	4559	T+STSLSQS S+ KNIFSS S TVSTSLSQSRSKTKNIFSSQS	4579	

Range 35: 5155 to 5355

Score	E	expect Method	Identities	Positives	Gaps	Frame
184 bits	(466) 7	e-49() Compositional matrix adjust.	182/201(91%)	186/201(92%)	0/201(0%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVF NIFSS S+NED SQEDTRTL ISVF				
Sbjct	5155	NIFSSQSVNEDKTSQEDTRTLPISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls			ISQEDTRTI SÕEDTRTI	
Sbjct	5215	TTEESSSFQESSAEENQTTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIAT NSLLTGSSAEEQTAQEE				
Sbjct	5275	SVPQSIATTNSLLTGSSAEEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSQSS QAKNIFSSPS				
Sbjct	5335	TLSTSLSQSSLQAKNIFSSPS 535	55			

Range 36: 1633 to 1833

Score	Е	xpect Method	Identities	Positives	Gaps	Frame
183 bits	(465) 16	e-48() Compositional matrix adjust.	185/201(92%)	192/201(95%)	0/201(0%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI				
Sbjct	1633	NIFSS S+NEDNISQEDTRTLSISVENIFSSQSVNEDNISQEDTRTLSISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	1693	TTEESSSFQESSAEENQMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE				
Sbjct	1753	SVPQSIATANSLLTGSSAEEQTAQE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TL+TSLSOSSS+ KNIFSS S				
Sbjct	1813	TLTTSLSQSSSKTKNIFSSQS 183	33			

Range 37: 4476 to 4676

Score	E	xpect Method	Identities	Positives	Gaps	Frame
182 bits	(462) 26	e-48() Compositional matrix adjust.	180/201(90%)	186/201(92%)	0/201(0%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP NIFSS S+NED SQEDTRTLSISVP				
Sbjct	4476	NIFSSQSVNEDKTSQEDTRTLSISVP				
Query	424	TTeesssfqessaeENQMTEVPWtls TTEESSSFQESSAEENQMTEVPWT+S				
Sbjct	4536	TTEESSSFQESSAEENQMTEVPWTVS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE	tsEHSKSLPQL	TTeesssfqess	aeENOMTEV	PW 65
Sbjct	4596	SVPQSIATANSLLTGSSAEEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLS SLSQSS QAKNIFSSPS				
Sbjct	4656	TLSISLSQSSLQAKNIFSSPS 467	6			

Range 38: 4573 to 4773

Occident Expect initiation interior inclined and initiative inclined	Score	Expect Method	Identities	Positives	Gaps	Frame
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182 bits	(461) 46	e-48() Compositional matrix adjust. 181/201(90%) 186/201(92%) 0/201(0%) -2				
Features:						
Query	604	NIFSSPSLNEDNISQEDTRTLSISVPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQL NIFSS S+NED SQEDTRT SISVPQSIATANSLLTGSSAEEQTAQEETSE SKSLPQL	425			
Sbjct	4573	NIFSS STRED SQEDTRT SISVPQSIATANSLLTGSSAEEQTAQEETSE SKSLPQL NIFSSQSVNEDKTSQEDTRTPSISVPQSIATANSLLTGSSAEEQTAQEETSELSKSLPQL	4632			
Query	424	TTeesssfqessaeENQMTEVPWtlstslsqsssQAKNIFSSPSLNEDNISQEDTRTLSI T EESSSFQ+SSAEE+Q TEVPWTLS SLSQSS QAKNIFSSPSLNEDNISQEDTRTL I	245			
Sbjct	4633	TREESSSFQKSSAEEHQTTEVPWTLSISLSQSSLQAKNIFSSPSLNEDNISQEDTRTLPI	4692			
Query	244	SVPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQLTTeesssfqessaeENQMTEVPW SVPOSIATA+SLLTGSSAEEOTAOEETSEHSKSLPOLTTEESSSF ESSAEENO TEVPW	65			
Sbjct	4693	SVPQSIATAHSLLTGSSAEEQTAQEETSEHSKSLPQLTTEESSSF ESSAEENQ TEVPW SVPQSIATAHSLLTGSSAEEQTAQEETSEHSKSLPQLTTEESSSFLESSAEENQTTEVPW	4752			
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTS SOSSS+ KNIFSS S				
Sbjct	4753	TLSTS SQSSS KNIFSS S TLSTSPSQSSSKTKNIFSSQS 4773				

Range 39: 9036 to 9236

Score	E	xpect Method	Identities	Positives	Gaps	Frame
181 bits	(460) 4	e-48() Compositional matrix adjust.	182/201(91%)	185/201(92%)	0/201(0%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP NIFSS SLNEDNISQEDTRT SISVP				
Sbjct	9036	NIFSSQSLNEDNISQEDTRT SISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls TTEESSSFQESSAEENQMTEVPWTLS				
Sbjct	9096	TTEESSSFQESSAEENQMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQS TAN LLTGS A+EQTAQEE				
Sbjct	9156	SVPQSSTTANRLLTGSIAKEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSOSSS+ KNIFSSPS				
Sbjct	9216	TLSTSLSQSSSEPKNIFSSPS 923	6			

Range 40: 7969 to 8169

Score	Е	xpect Method	Identities	Positives	Gaps	Frame
181 bits	(459) 66	e-48() Compositional matrix adjust.	179/201(89%)	183/201(91%)	0/201(0%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI				
Sbjct	7969	N FSS SLNED SQEDTRTLSIS I NTFSSQSLNEDKTSQEDTRTLSISAI				
Query	424	TTeesssfqessaeENQMTEVPWtls			ISQEDTRTI SÕEDTRTI	
Sbjct	8029	TTEESSSFQ+SSAEENQMTEVPWTVI				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE	etsEHSKSLPQLT	Teesssigess	aeENOMTEV	7PW 65
Sbjct	8089	SVPQSIATANSLLTGSSAEEQTAQEI				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSOSSSOAKNIFSSPS				
Sbjct	8149	TLSTSLSQSSSQAKNIFSSPS 816	59			

Range 41: 7307 to 7507

Score		Expect Method	Identities	Positives	Gaps	Frame
180 bits	(456) 2	e-47() Compositional matrix adjust.	184/201(92%)	189/201(94%)	0/201(0%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP NIFS+ S+NED SQEDTRTLSISVP				
Sbjct	7307	NIFSNQSVNEDKTSQEDTRTLSISVP				
Query	424	TTeesssfqessaeENQMTEVPWtls TTEESSSFQ+SSAEENQMTEVPWTLS				
Sbjct	7367	TTEESSSFQKSSAEENQMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee	tsEHSKSLPQL	Teesssfqess	aeENQMTEV	'PW 65

Range 42: 2060 to 2260

Score	E	xpect Method	Identities	Positives	Gaps	Frame
179 bits	(455) 2	e-47() Compositional matrix adjust.	185/201(92%)	191/201(95%)	0/201(0%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI NIFSS S+NEDNISQEDTRT SISVI				
Sbjct	2060	NIFSSQSVNEDNISQEDTRTPSISVI				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	2120	TTEESSSLÕESSAEENEMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE				
Sbjct	2180	SVPQSIATANSLLTGSSAEEQTAQE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TL+TSLSOSSS+ KNIFSS S				
Sbjct	2240	TLTTSLSQSSSKTKNIFSSQS 226	50			

Range 43: 9948 to 10148

Score	Ex	pect Method	Identities	Positives	Gaps	Frame
179 bits	(455) 2e-	47() Compositional matrix adjust.	184/201(92%)	189/201(94%)	0/201(0%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS S+NEDNISQEDTRT SISV				
Sbjct	9948	NIFSSQSVNEDNISQEDTRT SISV				
Query	424	TTeesssfqessaeENQMTEVPWtl				
Sbjct	10008	TTEESSS QESSAEEN MIEVPWIL				
Query	244	SVPQSIATANSLLTGssaeeqtaqe SVPQSIATANSLLTGSSAEEQTAQE				
Sbjct	10068	SVPQSIATANSLLTGSSAEEQTAQE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSQSSS+ NIFSS S				
Sbjct	10128		148			

Range 44: 9851 to 10051

Score	Ex	pect Method	Identities	Positives	Gaps	Frame
178 bits	(452) 6e-	47() Compositional matrix adjust.	184/201(92%)	190/201(94%)	0/201(0%)	-2
Features	3:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS S+NEDNISQEDTRT SISV				
Sbjct	9851	NIFSSQSVNEDNISQEDTRTPSISV				
Query	424	TTeesssfqessaeENQMTEVPWtl				
Sbjct	9911	TTEESSS QESSAEEN MIEVPWIL				
Query	244	SVPQSIATANSLLTGssaeeqtaqe SVPQSIATANSLLTGSSAEEQTAQE				
Sbjct	9971	SVPQSIATANSLLTGSSAEEQTAQE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSOSSS+ KNIFSS S				
Sbjct	10031	~	051			

Range 45: 1536 to 1736

Score	Expect Method	Identities	Positives	Gaps	Frame
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178 bits(452) 6e-47() Compositional matrix adjust. 182/201(91%) 190/201(94%) 0/201(0%) -2							
Features	3 :						
Query	604	NIFSSPSLNEDNISQEDTRTLSISVPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQL NIFSS S+NED SQEDTRTLSISVPQSIATANSLLTGSSAEEQTAQEETSE S+SLPQL	425				
Sbjct	1536	NIFSSLSVNEDKTSQEDTRTLSISVPQSIATANSLLTGSSAEEQTAQEETSE SISLFQL	1595				
Query	424	TTeesssfqessaeENQMTEVPWtlstslsqsssQAKNIFSSPSLNEDNISQEDTRTLSI TTEESSSFQESSA+EN MTEVPWTLSTSLSQSSS+ KNIFSS S+NEDNISQEDTRTLSI	245				
Sbjct	1596	TTEESSSFQESSAKENHMTEVPWTLSTSLSQSSSKTKNIFSSQSVNEDNISQEDTRTLSI	1655				
Query	244	SVPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQLTTeesssfqessaeENQMTEVPW	65				
Sbjct	1656	SVPQSIAT NSLLTGSSAEEÕTAÕEETSE SKSLPQLTTEESSSFÕESSAEENQMTEVPW SVPQSIATTNSLLTGSSAEEQTAÕEETSELSKSLPQLTTEESSSFÕESSAEENQMTEVPW	1715				

tlstslsqsssQAKNIFSSPS 2 TLSTSLS+SSS+ +NIFSS S TLSTSLSKSSSKTENIFSSQS 1736

Range 46: 2627 to 2827

64

Sbjct 1716

Query

Score	E	xpect Method	Identities	Positives	Gaps	Frame
178 bits((451) 66	e-47() Compositional matrix adjust.	184/201(92%)	186/201(92%)	0/201(0%)	-2
Features	S:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP NIFSS S+NEDNISOEDTRTL ISVP				
Sbjct	2627	NIFSSQSVNEDNISQEDTRTLPISVP				
Query	424	TTeesssfqessaeENQMTEVPWtls TTEESSSFQESSAEENQMTEVPWTLS				
Sbjct	2687	TTEESSSFQESSAEENQMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQS TAN LLTGSSAEE TAQEE				
Sbjct	2747	SVPQS TAN LLIGSSAEE TAQEE SVPQSSTTANRLLTGSSAEEPTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSOSSS+ KNIFSS S				
Sbjct	2807	TLSTSLSQSSST KNIFSS S TLSTSLSQSSSKTKNIFSSQS 282	7			

Range 47: 6919 to 7119

Score	Е	xpect Method	Identities	Positives	Gaps	Frame
178 bits	(451) 86	e-47() Compositional matrix adjust.	182/201(91%)	186/201(92%)	0/201(0%) -	-2
Features	3:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP NIFSS S+NED SQEDTRTLSISVP				
Sbjct	6919	NIFSSQSVNEDKTSQEDTRTLSISVP				
Query	424	TTeesssfqessaeENQMTEVPWtls TTEESSSFQESSAEENQMTEVPWTLS	tslsqsssQAKN	NIFSSPSLNEDN	ISQEDTRTLS SOEDTRTLS	
Sbjct	6979	TTEESSSFQESSAEENQMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIAT NSLLTGSSAEEQTAQEE				
Sbjct	7039	SVPQSIATTNSLLTGSSAEEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 T STS SOSSS+ KNIFSS S				
Sbjct	7099	TPSTSPSQSSSKTKNIFSSQS 711	9			

Range 48: 7016 to 7216

Score	E	xpect Method	Identities	Positives	Gaps	Frame
178 bits	(451) 8	e-47() Compositional matrix adjust.	180/201(90%)	185/201(92%)	0/201(0%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVE				
Sbjct	7016	NIFSS S+NED SQEDTRTLSISVE NIFSSQSVNEDKTSQEDTRTLSISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls			ISQEDTRTI SOEDTRTI	
Sbjct	7076	TTEESSSFQESSAEENQTTEVPWTPS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIAT NSLLTGSSAEEQTAQEE				

Sbjct 7136 SVPQSIATTNSLLTGSSAEEQTAQEETSEDSKSLPQLTTEESSSFQKSSAEENQMTEVPW 7195

Query 64 tlstslsqsssQAKNIFSSPS 2
TLSTSLSQSSS+ KNIFSS S
Sbjct 7196 TLSTSLSQSSSEPKNIFSSQS 7216

Range 49: 2351 to 2551

Score	E	xpect Method	Identities	Positives	Gaps I	Frame
178 bits	(451) 86	e-47() Compositional matrix adjust.	184/201(92%)	190/201(94%)	0/201(0%) -	2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI NIFSS S+NEDNISQEDTRT SISVI				
Sbjct	2351	NIFSSLSVNEDNISQEDTRTPSISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	2411	TTEESSSFÕESSAEENÕMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIAT NSLLTGSSAEEQTAQEE				
Sbjct	2471	SVPQSIATTNSLLTGSSAEEQTAQE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TL+TSLSOSSS+ KNIFSS S				
Sbjct	2531	TLTTSLSQSSSKTKNIFSSQS 255	51			

Range 50: 1245 to 1445

Score	E	expect Method	Identities	Positives	Gaps	Frame
177 bits	(450) 96	e-47() Compositional matrix adjust.	184/201(92%)	190/201(94%)	0/201(0%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI				
Sbjct	1245	NIFSS S+NEDNISQEDTRTLSISVI NIFSSLSVNEDNISQEDTRTLSISVI				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	1305	TTEESSSFQESSAEENQMTEVPWTL				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEI				
Sbjct	1365	SVPQSIATANSLLTGSSAEEQTAQEI				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSOSSS+ KNIFSS S				
Sbjct	1425	TLSTSLSQSSSKTKNIFSS S	45			

Range 51: 1730 to 1928

Score	E	xpect Method	Identities	Positives	Gaps	Frame
177 bits	(449) 16	e-46() Compositional matrix adjust.	182/199(91%)	190/199(95%)	0/199(0%)	-2
Features	3 :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVINIFSS S+NEDNISQEDTRT SISVI	POSIATANSLLT(Gssaeeqtaqee	tsEHSKSLP	QL 425
Sbjct	1730	NIFSSQSVNEDNISQEDTRTPSISV				
Query	424	TTeesssfqessaeENQMTEVPWtl				
Sbjct	1790	TTEESSSFQESSAEENQMTEVPWTL				
Query	244	SVPQSIATANSLLTGssaeeqtaqees				
Sbjct	1850	SVPQSIATANSLLTGSSAEEQTAQE				
Query	64	tlstslsqsssQAKNIFSS 8 TLSTSLS+SSS+ KNIFSS				
Sbjct	1910	TLSTSLSKSSSKTKNIFSS 1928				

Range 52: 2157 to 2355

Score	Expect	Method	Identities	Positives	Gaps	Frame
177 bits(449)	1e-46()	Compositional matrix adjust.	182/199(91%)	190/199(95%)	0/199(0%)	-2

Features: NIFSSPSLNEDNISQEDTRTLSISVPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQL NIFSS S+NEDNISQEDTRT SISVPQSIATANSLLTGSSAEEQTAQEETSE SKSLPQL NIFSSQSVNEDNISQEDTRTPSISVPQSIATANSLLTGSSAEEQTAQEETSELSKSLPQL 425 Query 604 Sbjct 2216 2157 TTeesssfqessaeEnQMTEVPWtlstslsqsssQAKNIFSSPSLNEDNISQEDTRTLSI TTEESSSFQESSAEENQMTEVPWTL+TSLSQSSS+ KNIFSS S+NEDNISQEDTRT SI TTEESSSFQESSAEENQMTEVPWTLTTSLSQSSSKTKNIFSSQSVNEDNISQEDTRTPSI Query 424 245 Sbjct 2217 2276 SVPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQLTTeesssfqessaeENQMTEVPW SVPQSIATANSLLTGSSAEEQTAQEETSE S+SLPQLTTEESSSFQESSA+EN MTEVPW SVPQSIATANSLLTGSSAEEQTAQEETSELSESLPQLTTEESSSFQESSAKENHMTEVPW Query 244 65 2277 Sbjct 2336 Query 64 tlstslsqsssQAKNIFSS TLSTSLS+SSS+ KNIFSS Sbjct 2337 TLSTSLSKSSSKTKNIFSS 2355

Range 53: 4088 to 4286

Score	Е	xpect Method	Identities	Positives	Gaps	Frame
177 bits	(448) 26	e-46() Compositional matrix adjust.	181/199(91%)	186/199(93%)	0/199(0%)	-2
Features	3 :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS S+NED SOEDTRTLSISV	POSIATANSLLTO			
Sbjct	4088	NIFSSQSVNEDKTSQEDTRTLSISV				
Query	424	TTeesssfqessaeENQMTEVPWtl TTEESSSFQESSAEENQ TEVPWTL				
Sbjct	4148	TTEESSSFQESSAEENQTTEVPWTL				
Query	244	SVPQSIATANSLLTGssaeeqtaqe SVPOS TAN LLTGSSAEE TAOE				
Sbjct	4208	SVPQSSTTANRLLTGSSAEEPTAQE				
Query	64	tlstslsqsssQAKNIFSS 8 TLSTSLSQSSS+AKNIFSS				
Sbjct	4268	TLSTSLSQSSSEAKNIFSS 4286				

Range 54: 5058 to 5258

Score	E	xpect Method	Identities	Positives	Gaps	Frame
176 bits	(445) 4	e-46() Compositional matrix adjust.	179/201(89%)	184/201(91%)	0/201(0%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVE				
Sbjct	5058	NIFSS S+NED SQEDTRTL ISVE NIFSSQSVNEDKTSQEDTRTLPISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls			ISQEDTRTI SOEDTRTI	
Sbjct	5118	TTEESSSF ESSAEENQ TEVPWILS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE				
Sbjct	5178	SVPQSIATANSLLTGSSAEEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTS SQSSS+ KNIFSS S				
Sbjct	5238	TLSTS SQSSS+ KN1FSS S TLSTSPSQSSSKTKN1FSSQS 525	8			

Range 55: 2254 to 2454

Score	E	expect Method	Identities	Positives	Gaps	Frame
175 bits	(443) 9	e-46() Compositional matrix adjust.	182/201(91%)	189/201(94%)	0/201(0%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI NIFSS S+NEDNISQEDTRT SISVI				
Sbjct	2254	NIFSSQSVNEDNISQEDTRTPSISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls	stslsqsssQAKI	NIFSSPSLNEDN	ISQEDTRTI	SI 245
Sbjct	2314	TTEESSSFQESSAKENHMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqees				
Sbjct	2374	SVPQSIATAKSLLTGSSAEEQTAQEE				

Range 56: 7598 to 7781

Score	E	xpect Method	Identities	Positives	Gaps	Frame
174 bits	(442) 16	e-45() Compositional matrix adjust.	169/201(84%)	173/201(86%)	17/201(8%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI				
Sbjct	7598	NIFSS S+NE+ SQEDTRTLSISVI NIFSSQSVNEEKTSQEDTRTLSISVI				
Query	424	TTeesssfqessaeENQMTEVPWtls		NIFSSPSLNED		
Sbjct	7658	TTEESSSFQKSSAEENQMTE				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEI				
Sbjct	7701	SVPQSIATANSLLTGSSAEEQTAQEI				
Query	64	tlstslsqsssQAKNIFSSPS 2 T+ TSLSQSSS KNIFSS S				
Sbjct	7761	TVLTSLSQSSS KNIFSS S TVLTSLSQSSSITKNIFSSQS 778	81			

Range 57: 1439 to 1639

Score	E	xpect Method	Identities	Positives	Gaps	Frame
174 bits	(442) 16	e-45() Compositional matrix adjust.	182/201(91%)	190/201(94%)	0/201(0%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP				
Sbjct	1439	NIFSS S+N+DNISQEDTRT SISVP NIFSSQSVNDDNISQEDTRTPSISVP				
Query	424	TTeesssfqessaeENQMTEVPWtls TTEESSSFOESSAEENOMTEVPWTL+			ISQEDTRTI SOEDTRTI	
Sbjct	1499	TTEESSSFQESSAEENQMTEVPWTLT				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE				
Sbjct	1559	SVPQSIATANSLLTGSSAEEQTAQEE				
Query	64	tlstslsgsssQAKNIFSSPS 2 TLSTSLSQSSS+ KNIFSS S				
Sbjct	1619	TLSTSLSQSSS+ KNIFSS S TLSTSLSQSSSKTKNIFSSQS 163	9			

Range 58: 6319 to 6559

Score	E	крес	t Method	Identities	Positives	Gaps	Frame
174 bits	(441) 1e	-45(() Compositional matrix adjust.	187/241(78%)	190/241(78%)	40/241(16%)	-2
Features	S:						
Query	604		FSSPSLNEDNISQEDTRTLSISV				
Sbjct	6319		FSS S+NED SQEDTRTL ISV FSSQSVNEDKTSQEDTRTLPISV				
Query	424		eesssfqessaeENQMTEVPWtl EESSSFQESSAEENQMTEVPWTI				
Sbjct	6379		EESSSFQESSAEENQMTEVPWTL EESSSFQESSAEENQMTEVPWTL				
Query	244		POSIATANSPOSIATANS			LLTGssa LLTGS A	
Sbjct	6439		PÕSIATANSLLTEPKNIFSSQSI	NEDNISQEDTR	TPSISVSQSST		
Query	184	qt OT	aqeetsEHSKSLPQLTTeesssf AQEETSEHSKSLPQLTTEESSSF	qessaeENQMT	EVPWtlstslso	qsssQAKNIFS	SSP 5
Sbjct	6499		AQEETSEHSKSLPQLTTEESSSF				
Query	4	S	2				
Sbjct	6559	S	6559				

Range 59: 4961 to 5161

Score	Expect Method	Identities	Positives	Gaps	Frame

174 bits(441) 26	e-45() Compositional matrix adjust. 179/201(89%) 183/201(91%) 0/201(0%) -2	
Features	:		
Query	604	NIFSSPSLNEDNISQEDTRTLSISVPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQL NIFSS SLNED SQEDTRT SISVPQSIATA+SLLTGSSAEEQTAQEETSEHSKSLPQL	425
Sbjct	4961	NIFSSQSLNEDKTSQEDTRTPSISVPQSIATAHSLLTGSSAEEQTAQEETSEHSKSLPQL	5020
Query	424	TTeesssfqessaeENQMTEVPWtlstslsqsssQAKNIFSSPSLNEDNISQEDTRTLSI TTEESSSF ESSAEENQ TEVPWTLSTS SQSSS+ KNIFSS S+NED SQEDTRTL I	245
Sbjct	5021	TTEESSSFLESSAEENQTTEVPWTLSTSPSQSSSKTKNIFSSQSVNEDKTSQEDTRTLPI	5080

Sbjct	4961	NIFSSQSLNEDKTSQEDTRTPSISVPQSIATAHSLLTGSSAEEQTAQEETSEHSKSLPQL	5020
Query	424	TTeesssfqessaeENQMTEVPWtlstslsqsssQAKNIFSSPSLNEDNISQEDTRTLSI TTEESSSF ESSAEENQ TEVPWTLSTS SQSSS+ KNIFSS S+NED SQEDTRTL I	245
Sbjct	5021	TTEESSSF ESSAEENQ TEVPWILSTS SQSSS+ KNIFSS S+NED SQEDIKTE T TTEESSSFLESSAEENQTTEVPWTLSTSPSQSSSKTKNIFSSQSVNEDKTSQEDTRTLPI	5080
Query	244	SVPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQLTTeesssfqessaeENQMTEVPW SVPQSIAT NSLLTGSSAEEQTAQEETSEHSKSLPQLTTEESSSF ESSAEENQ TEVPW	65
Sbjct	5081	SVPQSIATINSLLTGSSAEEQTAQEETSEHSKSLPQLTTEESSSF ESSAEENQTTEVPW	5140
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTS SOSSS+ KNIFSS S	
Sbjct	5141	TLSTS SQSSS+ KNIFSS S TLSTSPSQSSSKTKNIFSSQS 5161	

Range 60: 6650 to 6808

Score	E	xpect Method	Identities	Positives	Gaps	Frame
174 bits	(441) 2	e-45() Compositional matrix adjust.	151/159(95%)	152/159(95%)	0/159(0%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVE NIFSS SLNEDNISOEDTRTL ISVE				
Sbjct	6650	NIFSSQSLNEDNISQEDTRTLPISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	6710	TTEESSSFQESSAEENQTTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPOSIATANSLLTGSSAEEOTAOEE				
Sbjct	6770	SVPQSIATANSLLIGSSAEEQTAQEE SVPQSIATANSLLTGSSAEEQTAQEE				

Range 61: 1342 to 1540

Score	Е	xpect Method	Identities	Positives	Gaps	Frame
173 bits	(439) 3	e-45() Compositional matrix adjust.	182/199(91%)	189/199(94%)	0/199(0%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI NIFSS S+NEDNISQEDTRT SISVI				
Sbjct	1342	NIFSSLSVNEDNISQEDTRTPSISVI				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	1402	TTEESSSFQESSAKENHMTEVSWTL				
Query	244	SVPQSIATANSLLTGssaeeqtaqeesvPOSIATANSLLTGSSAEEOTAOE				
Sbjct	1462	SVPQSIATANSLLTGSSAEEQTAQEI				
Query	64	tlstslsqsssQAKNIFSS 8 TL+TSLSQSSS+ KNIFSS				
Sbjct	1522	TLTTSLSQSSSKTKNIFSS 1540				

Range 62: 7404 to 7604

Score	E	expect Method	Identities	Positives	Gaps	Frame
173 bits	(439) 3	e-45() Compositional matrix adjust.	181/201(90%)	185/201(92%)	0/201(0%)	-2
Feature	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVE				
Sbjct	7404	NIFSS SLNEDNISQEDTRTL ISVE NIFSSQSLNEDNISQEDTRTLPISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls			ISQEDTRTI SOEDTRT	
Sbjct	7464	TTEESSSFQESSAEENQTTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQS ATAN LLTGSSA+EQTAQEE				
Sbjct	7524	SVPQS ATAN LLIGSSAFEQIAQEE SVPQSSATANRLLTGSSAKEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 T STS SQSSS+ KNIFSS S				

Range 63: 3118 to 3318

Score	E	xpect Method	Identities	Positives	Gaps I	Frame
172 bits	(436) 86	e-45() Compositional matrix adjust.	179/201(89%)	185/201(92%)	0/201(0%) -	2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS S+NEDNISQEDTRT SISV				
Sbjct	3118	NIFSSQSVNEDNISQEDTRTPSISV				
Query	424	TTeesssfqessaeENQMTEVPWtl TTEESSSFQESSAEE+Q TEVPWTL				
Sbjct	3178	TTEESSSFQESSAEEHQTTEVPWTL				
Query	244	SVPQSIATANSLLTGssaeeqtaqe SVPQS TAN LLTGS AEEQTAQE				
Sbjct	3238	SVPQS TAN LLIGS ALEQIAGE SVPQSSTTANRLLTGSIAEEQTAQE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSOSSS+AKNIFSS S				
Sbjct	3298	TLSTSLSQSSSTARNIFSS S TLSTSLSQSSSEAKNIFSSQS 33	18			

Range 64: 10045 to 10243

Score	Ex	pect Method	Identities	Positives	Gaps	Frame	!
171 bits	(434) 1e-	44() Compositional matrix adjust	. 179/199(90%)	184/199(92%)	0/199(0%)	-2	<u> </u>
Features	3:						
Query	604	NIFSSPSLNEDNISQEDTRTLSIS NIFSS S+NEDNISQEDTRT SIS					425
Sbjct	10045	NIFSSQSVNEDNISQEDTRTPSIS					10104
Query	424	TTeesssfqessaeENQMTEVPWTTTEESSS QESSAEENQMTEVPWT		KNIFSSPSLNED NIFSS S+ ED			245
Sbjct	10105	TTEESSS QESSAEENQMTEVPWT					10164
Query	244	SVPQSIATANSLLTGssaeeqtag SVPQSIATANSLLTGSSAEEQTAG					65
Sbjct	10165	SVPQSIATANSLLTGSSAEEQTAQ					10224
Query	64	tlstslsqsssQAKNIFSS 8 TLSTSLSOSSS+ NIFSS					
Sbjct	10225	TLSTSLSQSSSKTMNIFSS 102	243				

Range 65: 3021 to 3221

Score	Е	xpect Method	Identities	Positives	Gaps	Frame
171 bits	(434) 16	e-44() Compositional matrix adjust.	179/201(89%)	185/201(92%)	0/201(0%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVE NIFSS S+NEDNISOEDTRTL ISVE	OSIATANSLLTO	Gssaeeqtaqee	tsEHSKSLP	QL 425
Sbjct	3021	NIFSSLSVNEDNISQEDTRTLPISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	3081	TTEESSSFQESSAEEHQTTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQS TAN LLTGSSAEE TAQEE				
Sbjct	3141	SVPQSSTTANRLLTGSSAEEPTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSQSSS+AKNIFSS S				
Sbjct	3201	TLSTSLSQSSSEAKNIFSSQS 322	:1			

Range 66: 3409 to 3609

Score		Expect	Method	Identities	Positives	Gaps	Frame
171 bits	(432)	2e-44()	Compositional matrix adjust.	180/201(90%)	184/201(91%)	0/201(0%)	-2
Features	s:						
Ouerv	604	NTEC	SCPCT.NEDNTCOEDTRTT.CTCVD	OSTATANST.T.TC	egapentaneo	+cFHCKCT.E	от. 42

Sbjct	3409	NIFSS S+NEDNISQEDTRT SISVPQS TAN LLTGSSAEE TAQEETSE SKSLPQL NIFSSQSVNEDNISQEDTRTPSISVPQSSTTANRLLTGSSAEEPTAQEETSELSKSLPQL	3468
Query	424	TTeesssfqessaeENQMTEVPWtlstslsqsssQAKNIFSSPSLNEDNISQEDTRTLSI TTEESSSFQESSAEENQMTEVPWTLSTSLSQSSS+ KNIFSS S+NEDNISQEDTRT SI	245
Sbjct	3469	TTEESSSFQESSAEENQMTEVPWILSTSLSQSSSF KNIFSS SFNEDNISQEDTRT SI TTEESSSFQESSAEENQMTEVPWILSTSLSQSSSKTKNIFSSQSVNEDNISQEDTRTPSI	3528
Query	244	SVPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQLTTeesssfqessaeENQMTEVPW SVPQS TAN LLTGS AEE TAQEETSE SKSLPQLTTEESSSFQESSAEENQMTEVPW	65
Sbjct	3529	SVPQS TAN LLIGS AEE TAQEETSE SKSLPQLTTEESSSFQESSAEENQMTEVPW SVPQSSTTANRLLTGSGAEEPTAQEETSELSKSLPQLTTEESSSFQESSAEENQMTEVPW	3588
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSOSSS+AKNIFSS S	
Sbjct	3589	TLSTSLSQSSSTAKNIFSS S TLSTSLSQSSSEAKNIFSSQS 3609	

Range 67: 3215 to 3415

Score	E	expect Method	Identities	Positives	Gaps	Frame
170 bits	(431) 36	e-44() Compositional matrix adjust.	. 179/201(89%)	184/201(91%)	0/201(0%)	-2
Features	S:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV				
Sbjct	3215	NIFSS S+NEDNISQEDTRTL ISV NIFSSQSVNEDNISQEDTRTLPISV				
Query	424	TTeesssfqessaeENQMTEVPWtl TTEESSSFQESSAEE+Q TEVPWTL				
Sbjct	3275	TTEESSSFQESSAEEHQTTEVPWTL				
Query	244	SVPQSIATANSLLTGssaeeqtaqe SVPQS TAN LLTGSSAEE TAQE				
Sbjct	3335	SVPQSSTTANRLLTGSSAEEPTAQE				
Query	64	tlstslsgsssQAKNIFSSPS 2 TLSTSLSOSSS+ KNIFSS S				
Sbjct	3395		15			

Range 68: 4282 to 4482

Score	Е	xpect Method	Identities	Positives	Gaps	Frame
170 bits	(430) 46	e-44() Compositional matrix adjust.	176/201(88%)	182/201(90%)	0/201(0%)	-2
Features	3:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVENIFSS +NED SQEDTRT SISVE				
Sbjct	4282	NIFSSQIVNEDKTSQEDTRTPSISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls			ISQEDTRTI SOEDTRTI	
Sbjct	4342	TTEESSSFQESSAEENQTTEVPWTVI				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE				
Sbjct	4402	SVPQSIATANSLLTGSSAEEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 T+STSLSQS S+ KNIFSS S				
Sbjct	4462	TVSTSLSQS ST KNIFSS S TVSTSLSQSRSKTKNIFSSQS 448	32			

Range 69: 6828 to 7022

Score	E	xpect Method	Identities	Positives	Gaps	Frame
169 bits	(428) 9	e-44() Compositional matrix adjust.	177/195(91%)	181/195(92%)	0/195(0%)	-2
Features	s:					
Query	586	SLNEDNISQEDTRTLSISVPQSIATA S+NED SQEDTRTLSISVPQSIAT				
Sbjct	6828	SVNEDKTSQEDTRTLSISVPQSIAT				
Query	406	sfqessaeENQMTEVPWtlstslsqs SFQESSAEENQ TEVPWT STS SQS			RTLSISVPÇ	
Sbjct	6888	SFQESSAEENQTTEVPWTPSTSPSQS				
Query	226	ATANSLLTGssaeeqtaqeetsEHSF AT NSLLTGSSAEEQTAQEETSEHSF				
Sbjct	6948	ATTNSLLTGSSAEEQTAQEETSEHSE				
Query	46	sqsssQAKNIFSSPS 2 SQSSS+ KNIFSS S				
Sbjct	7008	SQSSSKTKNIFSSQS 7022				

Score	E	Expect Method	Identities	Positives	Gaps	Frame
168 bits	(426) 1	e-43() Compositional matrix adjust.	176/201(88%)	182/201(90%)	0/201(0%)	-2
Features	3:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI NIFSS S+NEDNISQEDTRT SISVI				
Sbjct	4185	NIFSSQSVNEDNISQEDTRTPSISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls			ISQEDTRTI SÕEDTRT	
Sbjct	4245	TTEESSSFQKSSAEENQMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQS TANSLLTGSSAEEQTAQEE				
Sbjct	4305	SVPQSSTTANSLLTGSSAEEQTAQE				
Query	64	tlstslsqsssQAKNIFSSPS 2 T+ TSLSOSSS+ KNIFSS S				
Sbjct	4365	TVLTSLSQSSSKTKNIFSSQS 438	35			

Range 71: 3894 to 4094

Score	E	xpect Method	Identities	Positives	Gaps	Frame
168 bits((425) 26	e-43() Compositional matrix adjust.	176/201(88%)	183/201(91%)	0/201(0%)	-2
Features	3 :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVPONIFSS S+NED ISOEDTRTLSISV				
Sbjct	3894	NIFSSQSVNEDKISQEDTRTLSISVS				
Query	424	TTeesssfqessaeENQMTEVPWtls			ISQEDTRTI SOEDTRT	
Sbjct	3954	TTEESSSFQKSSAEENQMTEVPWTLS			~ ~	
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQS TANSLLTGSSAEEQTAQEE				
Sbjct	4014	SVPQSSTTANSLLTGSSAEEQTAQEE'				
Query	64	tlstslsqsssQAKNIFSSPS 2 T+STSLSOSSS+ KNIFSS S				
Sbjct	4074	TVSTSLSQSSSKTKNIFSSQS 409	4			

Range 72: 3991 to 4191

Score	E	expect Method	Identities	Positives	Gaps	Frame
168 bits	(425) 26	e-43() Compositional matrix adjust.	179/201(89%)	185/201(92%)	0/201(0%)	-2
Features	S:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVE NIFSS +NED SOEDTRT SISVE		Ssaeeqtaqee SSAEEQTAQEE		
Sbjct	3991	NIFSS +NED SQEDTRT SISVE NIFSSQIVNEDKTSQEDTRTPSISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	4051	TTEESSSFQ+SSAEENQMTEVPWT+S			SQEDTRTI TSQEDTRTI	
Query	244	SVPQSIATANSLLTGssaeeqtaqee				
Sbjct	4111	SVPQSIATANSLLTGSSAEEÕTAÕEE SVPQSIATANSLLTGSSAEEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2				
Sbjct	4171	TLSTSLSQSSS+ KNIFSS S TLSTSLSQSSSKTKNIFSSQS 419	91			

Range 73: 2918 to 3124

Score	E	xpect	Method	Identities	Positives	Gaps	Frame	
166 bits((421) 76	e-43()	Compositional matrix adjust.	178/207(86%)	187/207(90%)	6/207(2%)	-2	
Features	S :							
Query	604		SPSLNEDNISQEDTRTLSISVP		NSLLTGssaee			43
Sbjct	2918		S S+NEDNISQEDTRTL ISVPO SQSVNEDNISQEDTRTLPISVPO		MSLLTGSSAEE MSLLTGSSAEE			977

Query	442	KSLPQLTTeesssfqessaeENQMTEVPWtlstslsqsssQAKNIFSSPSLNEDNISQED +SLPQLTTEESSSFQESSA+EN MTEVPWTLSTSLS+SSS+ KNIFSS S+NEDNISQED	263
Sbjct	2978	ESLPQLTTEESSSFQESSAKENHMTEVPWTLSTSLSKSSSKTKNIFSSLSVNEDNISQED	3037
Query	262	TRTLSISVPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQLTTeesssfqessaeENQ TRTL ISVPQS TAN LLTGS AEEQTAQEETSEHSKSLPQLTTEESSSFQESSAEE+Q	83
Sbjct	3038	TRTLPISVPQS TAN LEIGS AEEQTAQEETSERSKSLPQLTTEESSSFQESSAEE+Q	3097
Query	82	MTEVPWtlstslsqsssQAKNIFSSPS 2 TEVPWTLSTSLSOSSS+AKNIFSS S	
Sbjct	3098	TTEVPWTLSTSLSQSSSEAKNIFSSQS 3124	

Range 74: 2545 to 2730

Score	E	xpect Method	Identities	Positives	Gaps	Frame
165 bits	(418) 26	e-42() Compositional matrix adjust.	167/201(83%)	172/201(85%)	15/201(7%)	-2
Feature	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV				
Sbjct	2545	NIFSS S+NEDNISQEDTRT SISV NIFSSQSVNEDNISQEDTRTPSISV	POSTATANSEE POSTATANSELA	GSSAEEQTAQE. .GSSAEEQTAQE	ETSE SKSLP ETSELSKSLP	QL 2604
Query	424	TTeesssfqessaeENQMTEVPWtl		NIFSSPSLNED		
Sbjct	2605	TTEESSSFQKFSAEENQSSKT				
Query	244	SVPQSIATANSLLTGssaeeqtaqe SVPQS TAN LLTGS AEEQTAQE				
Sbjct	2650	SVPQSSTTANRLLTGSIAEEQTAQE:				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSQSSSQAKNIFSS S				
Sbjct	2710	TLSTSLSQSSSQAKNIFSSQS 27	30			

Range 75: 3603 to 3803

Score	Е	expect Method	Identities	Positives	Gaps	Frame
164 bits	(416) 3	e-42() Compositional matrix adjust.	174/201(87%)	181/201(90%)	0/201(0%)	-2
Features	3:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI NIFSS S+N+D SOEDTRT SISVI				
Sbjct	3603	NIFSS S+N+D SQEDTRT SISVI NIFSSQSVNDDKTSQEDTRTPSISVI				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	3663	TTEESSSFQESSAEEHQTTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee				
Sbjct	3723	SV QS TAN LLIGS AELQIAQEI SVSQSSTTANRLLTGSIAEEQTAQEI				
Query	64	tlstslsqsssQAKNIFSSPS 2				
Sbjct	3783	TLSTSLSQSSS+AKNIFSS S TLSTSLSQSSSEAKNIFSSQS 380	03			

Range 76: 2724 to 2924

Score	E	xpect Method	Identities	Positives	Gaps	Frame
164 bits	(416) 3	e-42() Compositional matrix adjust.	179/201(89%)	183/201(91%)	0/201(0%)	-2
Features	3:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP NIFSS SLNEDNISQEDTRT SISVP				
Sbjct	2724	NIFSSQSLNEDNISQEDTRTPSISVP				
Query	424	TTeesssfqessaeENQMTEVPWtls TTEESSSFQESSAEENQMTEVPWTLS				
Sbjct	2784	TTEESSSFQESSAEENQMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQS TAN LLTGSSAEE TAQEE				
Sbjct	2844	SVPQSSTTANRLLTGSSAEEPTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSOSSS+ KNIFSS S				
Sbjct	2904	TLSTSLSQSSSF KNIFSS S TLSTSLSQSSSEPKNIFSSQS 292	4			

Score	E	xpect Method	Identities	Positives	Gaps	Frame
164 bits	(416) 36	e-42() Compositional matrix adjust.	175/201(87%)	181/201(90%)	0/201(0%)	-2
Features	3 :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI NIFSS S+NEDNISQEDTRT SISVI				
Sbjct	3506	NIFSSQSVNEDNISQEDTRTPSISV				
Query	424	TTeesssfqessaeENQMTEVPWtls			ISQEDTRTI SOEDTRT	
Sbjct	3566	TTEESSSFQESSAEENQMTEVPWTL			~	
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQS TAN LLTGSSAEE TAQEI	etsEHSKSLPQL	TTeesssfqess	aeENQMTEV	'PW 65
Sbjct	3626	SVPQSSTTANRLLTGSSAEEPTAQEI				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTS SQSSS+ KNIFSS S				
Sbjct	3686	TLSTSPSQSSSKTKNIFSSQS 37	06			

Range 78: 3312 to 3512

Score	E	xpect Method	Identities	Positives	Gaps	Frame
164 bits	(416) 3	e-42() Compositional matrix adjust.	179/201(89%)	183/201(91%)	0/201(0%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS S+NEDNISOEDTRT SISV				
Sbjct	3312	NIFSSQSVNEDNISQEDTRTPSISV				
Query	424	TTeesssfqessaeENQMTEVPWtl T EESSSFQESSAEENQMTEVPWTL				
Sbjct	3372	TAEESSSFQESSAEENQMTEVPWTL				
Query	244	SVPQSIATANSLLTGssaeeqtaqe SVPQS TAN LLTGSSAEE TAQE				
Sbjct	3432	SVPQSSTTANRLLTGSSAEEPTAQE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSQSSS+ KNIFSS S				
Sbjct	3492		12			

Range 79: 3700 to 3900

Score	E	xpect Method	Identities	Positives	Gaps	Frame
164 bits	(415) 56	e-42() Compositional matrix adjust.	174/201(87%)	182/201(90%)	0/201(0%)	-2
Features	3 :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS S+NED ISQEDTRTLSISV				
Sbjct	3700	NIFSSQSVNEDKISQEDTRTLSISV				
Query	424	TTeesssfqessaeENQMTEVPWtl			ISQEDTRTI SOEDTRT	
Sbjct	3760	TTEESSSFQKSSAEENQMTEVPWTL				
Query	244	SVPQSIATANSLLTGssaeeqtaqe	etsEHSKSLPQLT	Teesssfqess	aeENOMTEV	PW 65
Sbjct	3820	SVPQS TANSLLTGSSAEEQTAQE: SVPQSSTTANSLLTGSSAEEQTAQE:				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTS SOSSS+ KNIFSS S				
Sbjct	3880	TLSTSPSQSSSKTKNIFSSQS 39	00			

Range 80: 3797 to 3995

Score	E	Expect	Method	Identities	Positives	Gaps	Frame
163 bits	(413) 7	'e-42()	Compositional matrix adjust.	173/199(87%)	181/199(90%)	0/199(0%)	-2
Features	s:						
Query	604		SPSLNEDNISQEDTRTLSISVP SS S+N+D SOEDTRT SISVP		Ssaeeqtaqee SSSAEEQTAQEE		
Sbjct	3797		SQSVNDDKTSQEDTRTPSISVP				
Query	424	TTee	esssfqessaeENQMTEVPWtls	tslsqsssQAKN	NIFSSPSLNEDN	ISQEDTRTI	SI 245

Sbjct	3857	TTEESSSFQ+SSAEE+Q TEVPWTLSTS SQSSS+ KNIFSS S+NED ISQEDTRTLSI TTEESSSFQKSSAEEHQTTEVPWTLSTSPSQSSSKTKNIFSSQSVNEDKISQEDTRTLSI	3916
Query	244	SVPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQLTTeesssfqessaeENQMTEVPW 6 SV QS TAN LLTGS AEEQTAQEETSE SKSLPQLTTEESSSFQ+SSAEENQMTEVPW	65
Sbjct	3917		3976
Query	64	tlstslsqsssQAKNIFSS 8 TLSTSLSQSSS+AKNIFSS	
Sbjct	3977	TLSTSLSQSSS+ARNIFSS TLSTSLSQSSSEAKNIFSS 3995	

Range 81: 2448 to 2633

Score	E	xpect Method	Identities	Positives	Gaps	Frame
162 bits	(410) 26	e-41() Compositional matrix adjust.	166/201(83%)	174/201(86%)	15/201(7%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS S+N+DNISQEDTRTLSISV				
Sbjct	2448	NIFSSQSVNDDNISQEDTRTLSISV				
Query	424	TTeesssfqessaeENQMTEVPWtl TTEESSSFQESSAEENQMTEVPWTL				
Sbjct	2508	TTEESSSFQESSAEENQMTEVPWTL				
Query	244	SVPQSIATANSLLTGssaeeqtaqe SVPQSIATANSLL GSSAEEQTAQE				'PW 65
Sbjct	2568	SVPQSIATANSLLAGSSAEEQTAQE:				2625
Query	64	tlstslsqsssQAKNIFSSPS 2 KNIFSS S				
Sbjct	2626	KNIFSSQS 26	33			

Range 82: 7501 to 7684

Score	E	xpect Method	Identities	Positives	Gaps	Frame
160 bits	(406) 76	e-41() Compositional matrix adjust.	163/201(81%)	169/201(84%)	17/201(8%)	-2
Feature	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS S+NED SQEDTRT SISV				
Sbjct	7501	NIFSSQSVNEDKTSQEDTRTPSISV				
Query	424	TTeesssfqessaeENQMTEVPWtl				
Sbjct	7561	TTEESSSFQESSAEENQTTEVPWTP:				
Query	244	SVPQSIATANSLLTGssaeeqtaqeesvPQSIAT NSLLTGSSAEEQTAQE				'PW 65
Sbjct	7621	SVPQSIATTNSLLTGSSAEEQTAQE				7677
Query	64	tlstslsqsssQAKNIFSSPS 2 NIFSSPS				
Sbjct	7678	NIFSSPS 768	84			

Range 83: 2821 to 3025

Score	Е	expect Method	Identities	Positives	Gaps	Frame
158 bits	(399) 6	e-40() Compositional matrix adjust.	175/205(85%)	184/205(89%)	6/205(2%)	-2
Features:						
Query	604	NIFSSPSLNEDNISQEDTRTLSISVI NIFSS S+NEDNISQEDTRT SISVI				
Sbjct	2821	NIFSSQSVNEDNISQEDTRTPSISVE				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	2881	TTEESSSFQESSAEEHQTTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaed SVPQS + TANSLLTGSSAED				
Sbjct	2941	SVPQSSTTANRLLTANSLLTGSSAEI				
Query	82	MTEVPWtlstslsqsssQAKNIFSS MTEVPWTLSTSLS+SSS+ KNIFSS	8			
Sbjct	3001	MTEVPWTLSTSLSKSSSKTKNIFSS	3025			

Range 84: 1924 to 2163

Score	E	xpect Method	Identities	Positives	Gaps	Frame
157 bits	(398) 9e	e-40() Compositional matrix adjust.	183/240(76%)	188/240(78%)	39/240(16%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS S+NEDNISQEDTRT SISV				
Sbjct	1924	NIFSSLSVNEDNISQEDTRT SIST				
Query	424	TTeesssfqessaeE TTEESSSFOESSA			ГМОИ ГМОИ	
Sbjct	1984	TTEESSSFQESSACSAGSSAEEQTA	AQEETSELSKSL	PQLTTEESSSF		
Query	361	PWtlstslsqsssQAKNIFSSPSLN PWTLSTSLSOSSS+ KNIFSS S+N				
Sbjct	2044	PWTLSTSLSQSSS+ KNIFSS S+F PWTLSTSLSQSSSKTKNIFSSQSVN				
Query	181	taqeetsEHSKSLPQLTTeesssfq				
Sbjct	2104	TAQEETSELSKSLPQLTTEESSSLQ				

Range 85: 1827 to 1985

Score	E	Expect Method	Identities	Positives	Gaps	Frame
156 bits	(395) 2	2e-39() Compositional matrix adjust.	144/159(91%)	150/159(94%)	0/159(0%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP				
Sbjct	1827	NIFSS S+NEDNISQEDTRT SISVP NIFSSQSVNEDNISQEDTRTPSISVP				
Query	424	TTeesssfqessaeENQMTEVPWtls TTEESSSFQESSA+EN MTEVPWTLS				
Sbjct	1887	TTEESSSFQESSAKENHMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATA SLLTGSSAEEQTAQEE				
Sbjct	1947	SVPQSIATAKSLLTGSSAEEQTAQEE				

Range 86: 9756 to 9954

Score	Е	xpect Method	Identities	Positives	Gaps	Frame
154 bits	(389) 1	e-38() Compositional matrix adjust.	170/201(85%)	180/201(89%)	2/201(0%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVE NIFSS S+NED +S EDTRTLS S	OSIATANSLLTO OSI NSLLT			
Sbjct	9756	NIFSSQSVNEDKVSLEDTRTLSTS				
Query	424	TTeesssfqessaeENQMTEVPWtls				
Sbjct	9814	TTEEISSFQESSAKENQMTEVPWTLS				
Query	244	SVPQSIATANSLLTGssaeeqtaqee SVPQSIATANSLLTGSSAEEQTAQEE	etsEHSKSLPQLT	Teesssfqess	aeENQMTEV	PW 65
Sbjct	9874	SVPQSIATANSLLTGSSAEEQTAQEE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTSLSQSSS+ KNIFSS S				
Sbjct	9934	TLSTSLSQSSS+ KN1FSS S TLSTSLSQSSSKTKN1FSSQS 995	54			

Range 87: 6747 to 6925

Score	E	xpect Method	Identities	Positives	Gaps	Frame
152 bits	(384) 66	e-38() Compositional matrix adjust.	163/201(81%)	166/201(82%)	22/201(10%)	-2
Feature	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV				
Sbjct	6747	NIFSSPSLNEDNISQEDTRTL ISV NIFSSPSLNEDNISQEDTRTLPISV				
Query	424	TTeesssfqessaeENQMTEVPWtl	stslsqsssQA	KNIFSSPSLNEI + S+NEI		
Sbjct	6807			NQSVNE		
Query	244	SVPQSIATANSLLTGssaeeqtaqe SVPQSIAT NSLLTGSSAEEQTAQE				
Sbjct	6845	SVPQSIAT NSLLIGSSAEEQTAQE SVPQSIATTNSLLTGSSAEEQTAQE				

Query 64 tlstslsqsssQAKNIFSSPS 2 T STS SQSSS+ KNIFSS S Sbjct 6905 TPSTSPSQSSSKTKNIFSSQS 6925

Range 88: 1168 to 1346

Score	E	Expect Method	Identities	Positives	Gaps	Frame
133 bits	(335) 1	e-31() Compositional matrix adjust.	157/179(88%)	165/179(92%)	0/179(0%)	-2
Features	S :					
Query	544	LSISVPOSIATANSLLTGssaeeqta				
Sbjct	1168	L I +PQS TA+SLLT SAE QT LYIYLPQSSTTAHSLLTDLSAENQTN		POLTTEESSSFQ POLTTEESSSFQ		
Query	364	VPWtlstslsqsssQAKNIFSSPSLN VPWTL+TSLSOSSS+ KNIFSS S+N				
Sbjct	1228	VPWTLTTSLSQSSS+ KNTFSS-S+N VPWTLTTSLSQSSSKTKNIFSSLSVN				
Query	184	qtaqeetsEHSKSLPQLTTeesssfq TAOEETSE SKSLPOLTTEESSSFO				
Sbjct	1288	HTAQEETSELSKSLPQLTTEESSSFQ				

Range 89: 11199 to 11395

Score	Ex	pect Method	Identities	Positives	Gaps	Frame
120 bits	(302) 3e-	-27() Compositional matrix adjust.	150/201(75%)	160/201(79%)	4/201(1%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV				
Sbjct	11199	NIFSS S+NED +S EDTRTLS S NIFSSQSVNEDKVSLEDTRTLSTS-				
Query	424	TTeesssfqessaeENQMTEVPWtl TTEES SFQESSAE+NQMTE PWTI				
Sbjct	11257	TTEES SPOESSAETNOMIE PWIL				
Query	244	SVPQSIATANSLLTGssaeeqtaqe S OSI NSLLT SAE+OT OE	etsEHSKSLPQI ETSE S S+PQI			
Sbjct	11317	S-QSI NSLLI SAETQI QE SQSITITNSLLTDLSAEDQTNQE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTS QSSS+ KNIFSS S				
Sbjct	11375		.395			

Range 90: 10582 to 10778

Score	Ex	pect Method	Identities	Positives	Gaps	Frame
120 bits	(302) 4e-	-27() Compositional matrix adjust.	147/201(73%)	162/201(80%)	4/201(1%) -	2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS S+NED +S E+TRTLS S				
Sbjct	10582	NIFSSQSVNEDKVSLENTRTLSTS-				
Query	424	TTeesssfqessaeENQMTEVPWtl TTEES SFQESSA++NQ+TE PWTL				
Sbjct	10640	TTEESISFQESSAKQNQITEEPWTL				
Query	244	SVPQSIATANSLLTGssaeeqtaqe S OSI NSLLT SAE+OT OE	etsEHSKSLPQI ETSE S S+PQI			
Sbjct	10700	SQSITITNSLLTDLSAEDQTNQE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTS OSSS+ KNIFSS S				
Sbjct	10758		778			

Range 91: 14869 to 15063

5	Score	Expect	Method	Identities	Positives	Gaps	Frame	_
1	20 bits(302)	4e-27()	Compositional matrix adjust.	150/199(75%)	158/199(79%)	4/199(2%)	-2	-
F	eatures:							
Q	uery 598		SPSLNEDNISQEDTRTLSISVPQ S S+NED S EDTRTLSIS Q		saeeqtaqeet SAE+QT QEET			19

Sbjct	14869	FSSQSVNEDKTSLEDTRTLSISQSITMTNSLLTDLSAEDQTNQEETSELSKSLPQLTT	14926
Query	418	eesssfqessaeENQMTEVPWtlstslsqsssQAKNIFSSPSLNEDNISQEDTRTLSISV EES SFQESSAE+NQMTE PWTLSTSL QSSS+ NIFSS S+NED S EDTRTLS S	239
Sbjct	14927	EES SPOESSAETNOMIE PWILSTSL QSSST NIFSS STRED S EDIKILS S EESISFQESSAEQNOMTEEPWILSTSLPQSSSKINNIFSSQSVNEDKISLEDTRILSTSQ	14986
Query	238	PQSIATANSLLTGssaeeqtaqeetsEHSKSLPQLTTeesssfqessaeENQMTEVPWtl	59
Sbjct	14987	P I NS LT SAE+ÕT ÕEETS SKSLPQLTTEES SFÕESSAE+NOMTE PWTL PITITNSPLTDLSAEDQTNQEETSVLSKSLPQLTTEESISFQESSAEQNQMTEEPWTL	15044
Query	58	stslsqsssQAKNIFSSPS 2	
Sbjct	15045	STS QSSS+ KNIFSS S STSPPQSSSKTKNIFSSQS 15063	

Range 92: 10142 to 10274

Score	Ex	pect Method	Identities	Positives	Gaps	Frame	
119 bits	(298) 1e-	-26() Compositional matrix a	djust. 109/133(82%)	114/133(85%)	0/133(0%)	-2	
Features	S:						
Query	604	NIFSSPSLNEDNISQEDTRT NIFSS S+ ED OEDTRT	LSISVPQSIATANSLLT SISVPQSIATANSLLT				
Sbjct	10142	NIFSSQSVKEDKTFQEDTRI					1
Query	424	TTeesssfqessaeENQMTE TTEESSSFOESSAE+NOMTE					
Sbjct	10202	TTEESSSFQESSAEKNQMTE					1
Query	244	SVPQSIATANSLL 206 S POS ANSLL					
Sbjct	10262	SFPÕSSTKANSLL 10274					

Range 93: 10677 to 10871

Score	Ex	pect Method	Identities	Positives	Gaps	Frame	
118 bits	(296) 2e-	26() Compositional matrix adjus	t. 151/199(76%)	163/199(81%)	4/199(2%)	-2	
Features	S:						
Query	604	NIFSSPSLNEDNISQEDTRTLSI NIFSS S+NED +S EDTRTLS			etsEHSKS	LPOL 425	
Sbjct	10677	NIFSSQSVNEDKVSLEDTRTLST					34
Query	424	TTeesssfqessaeENQMTEVPW TTEES SFQESSAE+NQMTE PW					
Sbjct	10735	TTEESISFQESSAEQNQMTEEPW					94
Query	244	SVPQSIATANSLLTGssaeeqta S OSI NS LT SAE+OT	qeetsEHSKSLPQI QEETSE S S+PQI				
Sbjct	10795	SQSITMTNSPLTDLSAEDQTN					52
Query	64	tlstslsqsssQAKNIFSS 8 TLSTSLSQSSS+ KNIFSS					
Sbjct	10853		871				

Range 94: 11770 to 11965

Score	Ex	pect Method	Identities	Positives	Gaps	Frame)
118 bits	(295) 3e-	26() Compositional matrix adjust.	149/200(75%)	159/200(79%)	4/200(2%)	-2	
Features	S:						
Query	601	IFSSPSLNEDNISQEDTRTLSISVEIFSS S+NED S EDTRTLS S		Ssaeeqtaqee S+E+QT QEE			422
Sbjct	11770	IFSSQSVNEDKTSLEDTRTLSTS					11827
Query	421	TeesssfqessaeENQMTEVPWtls			ISQEDTRT		242
Sbjct	11828	TEESISFQESSAEQIQMTEEPWTLS					11887
Query	241	VPQSIATANSLLTGssaeeqtaqee QSI NSLLT S+E+QT QEE					62
Sbjct	11888	QSITITNSLLTDLSSEDQTNQEE					11945
Query	61	lstslsqsssQAKNIFSSPS 2 LSTS +OSSS+ KNIFSS S					
Sbjct	11946	LSTSPAQSSSKTKNIFSSQS 119	965				

Score	Ex	pect Method	Identities	Positives	Gaps F	rame
117 bits	(293) 6e-	26() Compositional matrix adjust.	151/200(76%)	160/200(80%)	4/200(2%) -2	2
Feature	s:					
Query	601	IFSSPSLNEDNISQEDTRTLSISVIFSS S+NED S DTRTLSIS	POSIATANSLLTO OSI NSLLT			
Sbjct	14298	IFSSQSVNEDKTSLGDTRTLSIS-				
Query	421	TeesssfqessaeENQMTEVPWtl			ISQEDTRTLS S EDTRTLS	
Sbjct	14356	TEESISFQESSAEQNQMTEEPWTL				
Query	241	VPQSIATANSLLTGssaeeqtaqe	etsEHSKSLPQLT ETSE SKSLPOLT			
Sbjct	14416	QSITMTNSPLTDLSAEDQTNQE				
Query	61	lstslsqsssQAKNIFSSPS 2 LSTSL OSSS+ NIFSS S				
Sbict	14474		493			

Range 96: 14962 to 15137

Score	Ex	pect Method	Identities	Positives	Gaps	Frame	_
117 bits	(292) 8e-	-26() Compositional matrix adjust.	133/180(74%)	142/180(78%)	4/180(2%)	-2	•
Feature	s:						
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS S+NED S EDTRTLS S				LPQL 4 LPOL	25
Sbjct	14962	NIFSSQSVNEDKTSLEDTRTLSTSQ					5019
Query	424	TTeesssfqessaeENQMTEVPWtl TTEES SFOESSAE+NOMTE PWTI					245
Sbjct	15020	TTEESISFQESSAEQNQMTEEPWTI					5079
Query	244	SVPQSIATANSLLTGssaeeqtaqe S OS A NSLLT SAE+OT +E	eetsEHSKSLPQI EE SE SKSLPOI				55
Sbjct	15080	S-QSRAITNSLLTDLSAEDQTNKE					5137

Range 97: 11865 to 12060

Score	Ex	pect Method	Identities	Positives	Gaps	Frame
116 bits	(290) 1e-	-25() Compositional matrix adjust.	149/200(75%)	158/200(79%)	4/200(2%)	-2
Features	S:					
Query	601	IFSSPSLNEDNISQEDTRTLSISVEIFSS S+NED S EDTRTLS S				
Sbjct	11865	IFSSQSVNEDKTSLEDTRTLSTS				
Query	421	TeesssfqessaeENQMTEVPWtls				
Sbjct	11923	TEESISFQESSAEENQMTEEPWTLS				
Query	241	VPQSIATANSLLTGssaeeqtaqee OSI NSLLT SAE+OT OEF	etsEHSKSLPQLT ETSE S SLPOLT			
Sbjct	11983	QSITITNSLLTELSAEDQTNQE				
Query	61	lstslsqsssQAKNIFSSPS 2 LSTS QSSS+ IFSS S				
Sbjct	12041	LSTSPPQSSSKTNIIFSSQS 120	060			

Range 98: 9327 to 9457

Score	E	Expect Method	Identities	Positives	Gaps	Frame
116 bits((290) 1	e-25() Compositional matrix adj	ust. 110/134(82%)	115/134(85%)	3/134(2%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLS				
Sbjct	9327	NIFSSPSLNEDNISQEDTRTLP				
Query	424	TTeesssfqessaeENQMTEVPVTTEESSSFQESSAEENQ T++PV			ISQEDTRTL ÕEDT	SI 245 SI
Sbjct	9387	TTEESSSFQESSAEENQTTKMPV			~	
Query	244	SVPQSIATANSLLT 203 S POS ANS LT				
Sbjct	9444	SFPÕSSTKANSFLT 9457				

Score	Ex	pect Method	Identities	Positives	Gaps	Frame
115 bits	(287) 3e-	-25() Compositional matrix adjust.	146/200(73%)	158/200(79%)	4/200(2%)	-2
Features	S:					
Query	601	IFSSPSLNEDNISQEDTRTLSISVEIFSS S+NED S EDTRTLS S	POSIATANSLLTO OSI NSLLT			
Sbjct	11580	IFSSQSVNEDKTSLEDTRTLSTS				
Query	421	TeesssfqessaeENQMTEVPWtls				
Sbjct	11638	TEESISFQESSAEQNQMTEEPWTLS				
Query	241	VPQSIATANSLLTGssaeeqtaqee QSI NSLLT SAE+QT QEE				
Sbjct	11698	QSITITNSLLTDLSAEDQTNQE				
Query	61	lstslsqsssQAKNIFSSPS 2 STSL O+SS+ IFSS S				
Sbjct	11756	PSTSLPQTSSKTNIIFSSQS 117	775			

Range 100: 11295 to 11469

Score	Ex	pect Method	Identities	Positives	Gaps I	Frame
114 bits	(286) 5e-	-25() Compositional matrix adjust.	133/179(74%)	143/179(79%)	4/179(2%) -	2
Features	s:					
Query	601	IFSSPSLNEDNISQEDTRTLSISVF IFSS S+NED S EDTRTLS S	OSIATANSLLTO OSI NSLLT			
Sbjct	11295	IFSS S+NED S EDTRTLS S IFSSQSVNEDKTSLEDTRTLSTS				
Query	421	TeesssfqessaeENQMTEVPWtls TEES SFOESSAE+NOMTE PWTLS				
Sbjct	11353	TEESISFQESSAEQNQMTEEPWTLS				
Query	241	VPQSIATANSLLTGssaeeqtaqee OSI NSLLT SAE+OT OEE	tsEHSKSLPQL'			
Sbjct	11413	QSITITNSLLTDLSAEDQTNQEE				

Range 101: 13241 to 13435

Score	Ex	pect Method	Identities	Positives	Gaps	Frame)
114 bits	(285) 6e-	25() Compositional matrix adjust.	150/199(75%)	159/199(79%)	4/199(2%)	-2	
Feature	S:						
Query	598	FSSPSLNEDNISQEDTRTLSISVPC FSS S+NED S EDTRTLSIS C					419
Sbjct	13241	FSS S+NED S EDTRTLSIS Q FSSQSVNEDKTSLEDTRTLSISQ					13298
Query	418	eesssfqessaeENQMTEVPWtlst EES SFQESSAE+NQMTE PWT ST			SQEDTRTL:		239
Sbjct	13299	EES STOESSAETHOMIE PWI SI EESISFQESSAEQNQMTEKPWTPSI					13357
Query	238	PQSIATANSLLTGssaeeqtaqeet OS A NSLLT SAE+OT OEET	SEHSKSLPQLT'				59
Sbjct	13358	-QSRAITNSLLTDLSAEDQTNQEET					13416
Query	58	stslsqsssQAKNIFSSPS 2 STSLSQ+SS+ NIFSS S					
Sbjct	13417	STSLSQTSSKTNNIFSSQS 1343	35				

Range 102: 13334 to 13509

Score	Ex	pect Method	Identities	Positives	Gaps	Frame
114 bits	(285) 6e	-25() Compositional matrix adjust.	137/180(76%)	145/180(80%)	4/180(2%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV				
Sbjct	13334	NIFSS S+NED S DTRT SIS NIFSSQSVNEDKTSLGDTRTPSIS-		T SAE+QT QE IDLSAEDQTNQE		
Query	424	TTeesssfqessaeENQMTEVPWtl TTEES SFQESSAE+NQMTE PWTI				
Sbjct	13392	TTEESISFQESSAEQNQMTEEPWTI				

Query	244	SVPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQLTTeesssfqessaeENQMTEVPW	65
_		S QSI NSLLT SAE+QT QEETSE SKSLPQLTTEES SFQESSAE+NQMTE PW	
Sbjct	13452	SQSITITNSLLTDLSAEDQTNQEETSELSKSLPQLTTEESISFQESSAEQNQMTEEPW	13509

Range 103: 14393 to 14567

Score	Ex	pect Method	Identities	Positives	Gaps	Frame	
113 bits	(283) 1e-	-24() Compositional matrix adjust.	135/179(75%)	142/179(79%)	4/179(2%)	-2	
Features	s:						
Query	601	IFSSPSLNEDNISQEDTRTLSISVE					
Sbjct	14393	IFSS S+NED S EDTRTLSIS IFSSQSVNEDKTSLEDTRTLSIS		SAE+ŌT ŌEE DLSAEDOTNOEE)
Query	421	TeesssfqessaeENQMTEVPWtls			ISQEDTRTL S DTRTL		
Sbjct	14451	TEESISFQESSAEQNQMTEEPWTLS)
Query	241	VPQSIATANSLLTGssaeeqtaqee OS NSLLT SAE+OT OEE	etsEHSKSLPQL'	TTeesssfqess	aeENOMTEV	PW 65	
Sbjct	14511	QSREITNSLLTDLSAEDQTNQEE					

Range 104: 11486 to 11680

Score	Exp	pect Method	Identities	Positives	Gaps	Frame	
112 bits	(280) 3e-	24() Compositional matrix adju	st. 147/199(74%)	157/199(78%)	4/199(2%)	-2	
Features	3:						
Query	598	FSSPSLNEDNISQEDTRTLSIS' FSS S+N+D S EDTRTLSIS					١9
Sbjct	11486	FSSQSVNKDKTSLEDTRTLSIS					L543
Query	418	eesssfqessaeENQMTEVPWt			SQEDTRTLS S EDTRTLS		39
Sbjct	11544	EESISFQESSAEQNQMTEEPWT					L602
Query	238	PQSIATANSLLTGssaeeqtaq OSI NSLLT SAE+OT O	eetsEHSKSLPQLTT EETSE S S+PQLTT)
Sbjct	11603	-QSITITNSLLTDLSAEDQTNQI					1661
Query	58	stslsqsssQAKNIFSSPS 2 STS OSSS+ KNIFSS S					
Sbjct	11662		1680				

Range 105: 12573 to 12748

Score	Ex	pect Method	Identities	Positives	Gaps	Frame	<u>. </u>
112 bits	(280) 3e-	-24() Compositional matrix adjust.	135/180(75%)	143/180(79%)	4/180(2%)	-2	
Feature	s:						
Query	604	NIFSSPSLNEDNISQEDTRTLSISV					425
Sbjct	12573	NIFSS S+NED S DTRTLSIS NIFSSQSVNEDKTSLGDTRTLSIS-		Γ SAE+ÕT ÕE ΓDLSAEDÕTNÕE			12630
Query	424	TTeesssfqessaeENQMTEVPWtl TTEES SFOESSAE+NOMTE PWTI					245
Sbjct	12631	TTEESISFQESSAEQNQMTEEPWTI					12690
Query	244	SVPQSIATANSLLTGssaeeqtaqe S OSI NS LT SAE+OT OF	etsEHSKSLPQ1 ETSE SKSLPQ1	LTTeesssiges	saeENQMTI	EVPW	65
Sbjct	12691	S-QSITMTNSPLTDLSAEDQTNQE					12748

Range 106: 12246 to 12419

Score	Exp	pect Method	Identities	Positives	Gaps	Frame	_
111 bits	(277) 7e-2	24() Compositional matrix adjust.	134/178(75%)	141/178(79%)	4/178(2%)	-2	•
Feature	s:						
Query	598	FSSPSLNEDNISQEDTRTLSISVPQ FSS S+NED S EDTRTLSIS O		ssaeeqtaqeet SAE+QT QEET			19
Sbjct	12246	FSSQSVNEDKTSLEDTRTLSIS-Q					230
Query	418	eesssfqessaeENQMTEVPWtlst EES SFQESSAE+NQMTE PWT ST			SQEDTRTLS S DTRTLS		239

Sbjct	12304	EESISFQESSAEQNQMTEEPWTPSTSLPQSSSKTNNIFSSQSVNEDKTSLGDTRTLSIS	- 12362
Query	238	PQSIATANSLLTGssaeeqtaqeetsEHSKSLPQLTTeesssfqessaeENQMTEVPW QS NSLLT SAE+QT QEETSE SKSLPQLTTEES SFQESSAE+NQMTE PW	65
Sbict	12363	-OSREITNSLLTDLSAEDOTNOEETSELSKSLPOLTTEESISFOESSAEONOMTEEPW	12419

Range 107: 11674 to 11870

Score	Ex	pect Method	Identities	Positives	Gaps F	rame_
110 bits	(276) 9e-	-24() Compositional matrix adjust.	145/201(72%)	157/201(78%)	4/201(1%) -	2
Features	S:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS S+NED +S EDTRTLS S	VPQSIATANSLLT QSI NSLLT		etsEHSKSLP ETSE S S+P	
Sbjct	11674	NIFSSQSVNEDKVSLEDTRTLSTS-				
Query	424	TTeesssfqessaeENQMTEVPWtl				
Sbjct	11732	TTEESISFQESSAEQNQMTEEPWT				
Query	244	SVPQSIATANSLLTGssaeeqtaqe S QSI NSLLT S+E+QT QE				
Sbjct	11792	SQSITITNSLLTDLSSEDQTNQE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTS OSSS+ IFSS S				
Sbjct	11850		1870			

Range 108: 11389 to 11585

Score	Ex	pect Method	Identities	Positives	Gaps	Frame
109 bits	(273) 3e-	-23() Compositional matrix adjust.	145/201(72%)	157/201(78%)	4/201(1%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS S+NED +S EDTRTLS S				
Sbjct	11389	NIFSSQSVNEDKVSLEDTRTLSTS-				
Query	424	TTeesssfqessaeENQMTEVPWtl				
Sbjct	11447	TTEESISFQESSAEQNQMTEEPWTE				
Query	244	SVPQSIATANSLLTGssaeeqtaqe S QSI NS LT SAE+QT QE				
Sbjct	11507	SQSITMTNSPLTDLSAEDQTNQE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTS QSSS+ IFSS S				
Sbjct	11565		1585			

Range 109: 12339 to 12514

Score	Ex	rpect Method	Identities	Positives	Gaps	Frame	<u> </u>
109 bits	(272) 3e	e-23() Compositional matrix adjust.	133/180(74%)	141/180(78%)	4/180(2%)	-2	
Features	s:						
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS S+NED S DTRTLSIS		rGssaeeqtaqe r sae+or oe			425
Sbjct	12339	NIFSSQSVNEDKTSLGDTRTLSIS-					12396
Query	424	TTeesssfqessaeENQMTEVPWtl TTEES SFQESSAE+NQMTE PWTI					245
Sbjct	12397	TTEESISFQESSAEQNQMTEEPWTI					12456
Query	244	SVPQSIATANSLLTGssaeeqtaqe S OSI NS LT SAE+OT OE	etsEHSKSLPQI ETSE SKSLPQI				65
Sbjct	12457	SQSITMTNSPLTDLSAEDQTNQE					12514

Range 110: 13596 to 13790

Score		Expect	Method	Identities	Positives	Gaps	Frame
109 bits	(272)	3e-23()	Compositional matrix adjust.	146/199(73%)	156/199(78%)	4/199(2%)	-2
Features	s:						
Ouerv	598	FCC	SPST.NEDNTSOEDTRTT.STSVDC	STATANST.T.TC	ssapentaneet	cEHCKCT.DO	יייי.דר

Sbjct	13596	FSS S+NED S EDTRTLSIS QSI NS LT SAE+QT QEETSE SKSLPQLTT FSSQSVNEDKTSLEDTRTLSISQSITMTNSPLTDLSAEDQTNQEETSELSKSLPQLTT	13653
Query	418	eesssfqessaeENQMTEVPWtlstslsqsssQAKNIFSSPSLNEDNISQEDTRTLSISV EES SFQESSAE+NQMTE PWT STSL Q+SS+ FSS S+ ED S EDTRTLSIS	239
Sbjct	13654	EES SPOESSAETNOMIE PWI SISE QTSST FSS ST ED S EDIRILSIS EESISFQESSAEQNQMTEEPWTPSTSLPQTSSKTNITFSSQSVYEDKTSLEDTRTLSIS-	13712
Query	238	PQSIATANSLLTGssaeeqtaqeetsEHSKSLPQLTTeesssfqessaeENQMTEVPWtl QSIA NS LT SAE+QT QEETSE SKSLPQLTTEES SFQESSAE+NQMTE PWTL	59
Sbjct	13713	-QSIAMTNSPLTDLSAEDQTNQEETSELSKSLPQLTTEESISFQESSAETNQMTEEPWTL	13771
Query	58	stslsqsssQAKNIFSSPS 2	
Sbjct	13772	STSL Q+SS+ N FSS S STSLPQTSSKTNNTFSSQS 13790	

Range 111: 14014 to 14208

Score	Ex	pect Method	Identities	Positives	Gaps	Frame	<u> </u>
108 bits	(270) 5e-	23() Compositional matrix adjust.	148/199(74%)	158/199(79%)	4/199(2%)	-2	
Features	S:						
Query	598	FSSPSLNEDNISQEDTRTLSISVPO					419
Sbjct	14014	FSS S+NED S EDTRTLSIS (FSSQSVNEDKTSLEDTRTLSIS(SAE+QT QEET LSAEDQTNQEET			14071
Query	418	eesssfqessaeENQMTEVPWtlst EES SFQESSAE+NQMTE PWTLST			SQEDTRTL: S EDTRTL:		239
Sbjct	14072	EESISFQESSAEQNQMTEEPWTLS:					14130
Query	238	POSIATANSLLTGssaeeqtaqeet	tsEHSKSLPQLT' ISE SKSLPQLT'				59
Sbjct	14131	-QSITMTNSPLTDLSAEDQTNQEE					14189
Query	58	stslsqsssQAKNIFSSPS 2 STSLSO+SS+ IFSS S					
Sbjct	14190	STSLSQTSSKTNIIFSSQS 1420	08				

Range 112: 14203 to 14398

Score	Ex	pect Method	Identities	Positives	Gaps F	rame
108 bits	(269) 8e-	-23() Compositional matrix adjust.	146/200(73%)	157/200(78%)	4/200(2%) -2	2
Features	S:					
Query	601	IFSSPSLNEDNISQEDTRTLSISVEIFSS S+NED S +TRTLSIS	POSIATANSLLTO OSI NS LT			
Sbjct	14203	IFSSQSVNEDKTSLGNTRTLSIS				
Query	421	TeesssfqessaeENQMTEVPWtls			ISQEDTRTLS S DTRTLS	
Sbjct	14261	TEESISFQESSAEQNQMTEEPWTLS				
Query	241	VPQSIATANSLLTGssaeeqtaqee OSI NSLLT SAE+OT OEE	etsEHSKSLPQLT ETSE SKSLPQLT			
Sbjct	14321	QSITITNSLLTDLSAEDQTNQE				
Query	61	lstslsqsssQAKNIFSSPS 2 LSTSL Q+SS+ IFSS S				
Sbjct	14379		398			

Range 113: 14487 to 14662

Score	Ex	pect Method	Identities	Positives	Gaps	Frame	_
107 bits	(266) 2e-	-22() Compositional matrix adjust.	132/180(73%)	140/180(77%)	4/180(2%)	-2	_
Features	s:						
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS S+NED S DTRTLSIS	POSIATANSLL' OS NSLL'				425
Sbjct	14487	NIFSSQSVNEDKTSLGDTRTLSIS-					14544
Query	424	TTeesssfqessaeENQMTEVPWtl TT ES SFOESSAE+NOMTE PWTL					245
Sbjct	14545	TTAESISFQESSAEQNQMTEEPWTL					14604
Query	244	SVPQSIATANSLLTGssaeeqtaqe S OSI NS LT SAE+OT OE		LTTeesssfqes LTTEES SFQES			65
Sbjct	14605	SQSITMTNSPLTDLSAEDQTNQE					14662

Score	Ex	pect Method	Identities	Positives	Gaps	Frame	
106 bits	(264) 3e-	-22() Compositional matrix adjust.	132/180(73%)	140/180(77%)	4/180(2%)	-2	_
Features	S:						
Query	604	NIFSSPSLNEDNISQEDTRTLSISV				~	425
Sbjct	12668	NIFSS S+NED S DTRTLSIS NIFSSQSVNEDKTSLGDTRTLSIS-		T SAE+QT QE TDLSAEDQTNQE			12725
Query	424	TTeesssfqessaeENQMTEVPWtl TT ES SFOESSAE+NOMTE PWTL					245
Sbjct	12726	TTAESISFQESSAE TNOMTE PWTL					12785
Query	244	SVPQSIATANSLLTGssaeeqtaqe	etsEHSKSLPQI ETSE SKSLPOI				65
Shict	12786	S QSI NS LT SAE+QT QE	~	~	~		12843

Range 115: 14109 to 14303

Score	Ex	pect Method	Identities	Positives	Gaps I	rame
105 bits	(262) 6e-	-22() Compositional matrix adjust.	146/199(73%)	157/199(78%)	4/199(2%) -	2
Features	3:					
Query	598	FSSPSLNEDNISQEDTRTLSISVPO		ssaeeqtaqeet SAE+QT QEET		
Sbjct	14109	FSSQSVNEDKTSLEDTRTLSIS(
Query	418	eesssfqessaeENQMTEVPWtlst				
Sbjct	14167	EESISFQESSAEQNQMTEEPWTLS				
Query	238	POSIATANSLLTGssaeeqtaqee				
Sbjct	14226	-QSITMTNSPLTDLSAEDQTNQEE				
Query	58	stslsqsssQAKNIFSSPS 2 STSL O+SS+ IFSS S				
Sbjct	14285	STSLPQTSSKTNIIFSSQS 1430	03			

Range 116: 9679 to 9857

Score	Е	xpe	ct Method	Identities	Positives	Gaps I	Frame
105 bits	(261) 7	e-22	() Compositional matrix adjust.	138/181(76%)	151/181(83%)	2/181(1%) -	2
Features	S :						
Query	544		ISVPOSIATANSLLTGssaeeqta I +POS TA+SLLT SAE+OT	qeetsEHSKSLI QEETSE S S+1			
Sbjct	9679	_	I TPOS TATSELT SAETQT IYLPQSSTTAHSLLTDLSAEDQTN				
Query	364		WtlstslsqsssQAKNIFSSPSLN WTLSTS QSSS+ KNIFSS S+N				
Sbjct	9739		WTLSTSPPQSSSKTKNIFSSQSVN				_
Query	184		aqeetsEHSKSLPQLTTeesssfo QEETSE S+SLPQLTTEE SSFO				
Sbjct	9797		NQEETSELSESLPQLTTEEISSFQ				
Query	4	S	2				
Sbjct	9857	S	9857				

Range 117: 13051 to 13224

Score	Ex	pect Method	Identities	Positives	Gaps	Frame	<u> </u>
105 bits	(261) 8e	-22() Compositional matrix adjust.	131/178(74%)	139/178(78%)	4/178(2%)	-2	
Feature	s:						
Query	598	FSSPSLNEDNISQEDTRTLSISVPQ		ssaeeqtaqeet	SEHSKSLPO	QLTT	419
Sbjct	13051	FSS S+NED S EDTRTLSIS Q FSSQSVNEDKTSLEDTRTLSISQ	QSI NS LT QSITMTNSPLTD	SAE+ŌT ŌEET LSAEDŌTNŌEET			13108
Query	418	eesssfqessaeENQMTEVPWtlst ES SFQESSAE+NQMTE PWTLST	slsqsssQAKN	IFSSPSLNEDNI	SQEDTRTLS S EDTRTLS	SISV	239
Sbjct	13109	AESISFQESSAEQNQMTEEPWTLST					13167
Query	238	POSIATANSLLTGssaeeqtaqeet OSI NS LT SAE+OT OEET		Teesssfqessa TEES SFQESSA			5
Sbjct	13168	-QSITMTNSPLTDLSAEDQTNQEET					3224

Score	Ex	pect Method	Identities	Positives	Gaps	Frame
104 bits	(260) 1e-	21() Compositional matrix adjust.	144/201(72%)	154/201(76%)	4/201(1%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV NIFSS S+NED S EDTRTL S				
Sbjct	11959	NIFSSQSVNEDKTSLEDTRTLLTS-	- ÕSITITNSLLT			
Query	424	TTeesssfqessaeENQMTEVPWtl TTEES SFQESSAE+NQMTE PWTL				
Sbjct	12017	TTEESISFQESSAEQNQMTEEPWTL				
Query	244	SVPQSIATANSLLTGssaeeqtaqe S OSI NSLLT SAE+OT OE	etsEHSKSLPQI ETSE S S+PQI			
Sbjct	12077	SQSITITNSLLTDLSAEDQTNQE				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTS OSSS+ IFSS S				
Sbjct	12135		155			

Range 119: 14679 to 14852

Score	Ex	pect Method	Identities	Positives	Gaps	Frame	<u>e</u>
102 bits	(255) 5e-	-21() Compositional matrix adjust.	130/178(73%)	138/178(77%)	4/178(2%)	-2	
Features	s:						
Query	598	FSSPSLNEDNISQEDTRTLSISVPQ FSS S+ ED S EDTRTLSIS O		ssaeeqtaqeet SAE+QT QEET			419
Sbjct	14679	FSSQSVYEDKTSLEDTRTLSISQ					14736
Query	418	eesssfqessaeENQMTEVPWtlst ES SFOESSAE+NOMTE PWTLST					239
Sbjct	14737	AESISFQESSAEQNQMTEEPWTLST					14795
Query	238	PQSIATANSLLTGssaeeqtaqeet OSI NS LT SAE+OT OEET	SEHSKSLPQLT'				5
Sbjct	14796	-QSITMTNSPLTDLSAEDQTNQEET					4852

Range 120: 12055 to 12229

Score	Ex	pect Method	Identities	Positives	Gaps	Frame
101 bits	(251) 2e	-20() Compositional matrix adjust.	127/179(71%)	139/179(77%)	4/179(2%)	-2
Features	s:					
Query	601	IFSSPSLNEDNISQEDTRTLSISVP IFSS S+NE+ S EDTRTLS S				
Sbjct	12055	IFSSQSVNENKTSLEDTRTLSTS				
Query	421	TeesssfqessaeENQMTEVPWtls TEES SFQES AE+NQMTE PWTLS			ISQEDTRTL S EDTRTL	
Sbjct	12113	TEESISFQESIAEQNQMTEEPWTLS				
Query	241	VPQSIATANSLLTGssaeeqtaqee OSI NSLLT SAE+OT OE+		TTeesssfqess TTEES SFOESS		
Sbjct	12173	QSITITNSLLTDLSAEDQTNQEK				

Range 121: 10505 to 10683

Score	Ex	rpect Method	Identities	Positives	Gaps	Frame
100 bits	(250) 2e	-20() Compositional matrix adjust.	133/181(73%)	146/181(80%)	2/181(1%)	-2
Features	s:					
Query	544	LSISVPQSIATANSLLTGssaeeqt				
Sbjct	10505	L I +PQS TA+SLLT SAE QT LYIYLPQSSTTAHSLLTDLSAENQT		LPQLTTEE SSF LPQLTTEEISSF		
Query	364	VPWtlstslsqsssQAKNIFSSPSL PWTLSTS OSSS+ KNIFSS S+				saee 185 SAE+
Sbjct	10565	EPWTLSTSPRQSSSKTKNIFSSQSV				·
Query	184	qtaqeetsEHSKSLPQLTTeesssf QT QEETSE S S+PQLTTEES SF			SSSQAKNII SSS+ KNII	

Sbjct 10623 QTNQEETSELSNSVPQLTTEESISFQESSAKQNQITEEPWTLSTSPPQSSSKTKNIFSSQ 10682

Query 4 S 2
Sbjct 10683 S 10683

Range 122: 11122 to 11300

Score	Ex	pect Method	Identities	Positives	Gaps	Frame	_
100 bits	(248) 4e-	20() Compositional matrix adjust.	135/181(75%)	145/181(80%)	2/181(1%)	-2	
Features	3:						
Query	544	LSISVPQSIATANSLLTGssaeeqt L I +POS TA+SLLT SAE OT	aqeetsEHSKSI QEETSE S S				865
Sbjct	11122	LYIYLPQSSTTAHSLLTDLSAENQT					.1181
Query	364	VPWtlstslsqsssQAKNIFSSPSL PWTLSTS QSSS+ KNIFSS S+				saee 1 SAE+	.85
Sbjct	11182	EPWTLSTSPPÕSSSKTKNIFSSOSV					1239
Query	184	qtaqeetsEHSKSLPQLTTeesssf QT QEETSE SKSLPQLTTEES SF				SSP 5	,
Sbjct	11240	QTNQEETSELSKSLPQLTTEESISF					1299
Query	4	S 2 S					
Sbjct	11300	S 11300					

Range 123: 13691 to 13843

Score	E	xpect Method	Identities	Positives	Gaps	Frame	<u> </u>
98.6 bits	s(244) 1e	e-19() Compositional matrix adjust.	116/157(74%)	123/157(78%)	4/157(2%)	-2	
Features	S :						
Query	598	FSSPSLNEDNISQEDTRTLSISVPQ					419
Sbjct	13691	FSS S+ ED S EDTRTLSIS Q FSSQSVYEDKTSLEDTRTLSISQ					13748
Query	418	eesssfqessaeENQMTEVPWtlst EES SFQESSAE+NQMTE PWTLST					239
Sbjct	13749	EES STOESSAE NOMIE FWILST EESISFQESSAEQNQMTEEPWTLST					13807
Query	238	PQSIATANSLLTGssaeeqtaqeet QSI NS LT SAE+QT QEET					
Sbjct	13808	-QSITMTNSPLTDLSAEDQTNQEET					

Range 124: 12765 to 12935

Score	E	xpect Method	Identities	Positives	Gaps	Frame	<u> </u>
98.6 bits	s(244) 2e	e-19() Compositional matrix adjust.	130/175(74%)	138/175(78%)	4/175(2%)	-2	<u> </u>
Features	S:						
Query	598	FSSPSLNEDNISQEDTRTLSISVPQ FSS S+ ED S EDTRTLSIS O		saeeqtaqeet SAE+OT OEET			419
Sbjct	12765	FSS S+ ED S EDTRTLSIS Q FSSQSVYEDKTSLEDTRTLSISQ					12822
Query	418	eesssfqessaeENQMTEVPWtlst EES SFOESSAE+NOMTE PWTLST			SQEDTRTL: S EDTRTL:		239
Sbjct	12823	EES STQESSAE NOMTE FWILST EESISFQESSAEQNQMTEEPWTLST					12881
Query	238	PQSIATANSLLTGssaeeqtaqeet OSI NS LT SAE+OT OEET		Teesssfqessa TEES SFQESSA		74	
Sbjct	12882	-QSITMTNSPLTDLSAEDQTNQEET				12935	,

Range 125: 12860 to 13034

Score	Ex	pect Method	Identities	Positives	Gaps	Frame)
97.1 bits(240) 5e	-19() Compositional matrix adjust.	124/179(69%)	133/179(74%)	5/179(2%)	-2	_
Features:							
Query	598	FSSPSLNEDNISQEDTRTLSISVPQS FSS S+NED S EDTRTLSIS OS		saeeqtaqeet: SAE+OT OEET:			419
Sbjct	12860	FSSQSVNEDKTSLEDTRTLSISQS		~ ~	~		12917
Query	418	eesssfqessaeENQMTEVPWtlsts	slsqsssQAKNI	-FSSPSLNEDN	ISQEDTRTL	SIS	242

Sbjct	12918	EES SFQESSAE+NQMTE ++ +S NI FSS S+ ED S EDTRTLSIS EESISFQESSAEQNQMTEGGRGHLSTSLPQTSSKTNITFSSQSVYEDKTSLEDTRTLSIS	12977
Query	241	VPQSIATANSLLTGssaeeqtaqeetsEHSKSLPQLTTeesssfqessaeENQMTEVPW QSI NS LT SAE+QT QEETSE SKSLPQLTTEES SFQESSAE+NQMTE PW	65
Sbjct	12978		13034

Range 126: 13784 to 13997

Score	Ex	spect Method	Identities	Positives	Gaps	Frame		
88.2 bits(217) 4e-16() Compositional matrix adjust. 133/218(61%) 141/218(64%) 42/218(19%) -2								
Features	s:							
Query	604	NIFSSPSLNEDNISQEDTRTLSIS N FSS S+NED S EDTRTLSIS		LTGssaeeqta LT SAE+QT				
Sbjct	13784	NTFSSQSVNEDKTSLEDTRTLSIS						
Query	427				qessaeENQMT OESSAE+NOMT			
Sbjct	13842	TTEESISFQESSPLTDLSAEDQTN	QEETSELSKSL					
Query	358	WtlstslsqsssQAKNIFSSPSLN						
Sbjct	13902	WTLSTSL Q+SS+ FSS S+ WTLSTSLPQTSSKTNITFSSQSVY	ED S EDTRT EDKTSLEDTRT			E+QT EDQT 13959		
Query	178	ageetsEHSKSLPQLTTeesssfq						
Sbjct	13960	QEETSE SKSLPQLTTEES SFQ NQEETSELSKSLPQLTTEESISFQ						

Range 127: 10772 to 10900

Score	E	kpect Method	Identities	Positives	Gaps	Frame	
85.1 bits	s(209) 4e	e-15() Compositional mat	trix adjust. 96/134(72%)	104/134(77%)	5/134(3%)	-2	
Features	S :						
Query	604	NIFSSPSLNEDNISQED NIFSS S+NED +S ED	TRTLSISVPQSIATANSLLT TRTLSIS ÖSI NS L				5
Sbjct	10772		TRTLSIS QSI NS L.				829
Query	424		MTEVPWtlstslsqsssQAI +TEVPWTLSTSLSOSSS+ 1			TLSI 245 SI	5
Sbjct	10830	~	ITEVPWTLSTSLSQSSSKT		~		886
Query	244	SVPQSIATANSLLT 2 S POS ANS LT	03				
Sbjct	10887		0900				

Range 128: 13550 to 13674

Score	Ex	pect Metho	d	Identities	Positives	Gaps	Frame	_
80.9 bits	(198) 1e	-13() Compo	ositional matrix adjust.	98/127(77%)	104/127(81%)	2/127(1%)	-2	_
Features	3 :							
Query	445		reesssfqessaeENQMT rees sfoessae+nOMT				SQE S E	266
Sbjct	13550	~	TEESISFQESSAEQNQMT		~			13609
Query	265	DTRTLSIS	VPQSIATANSLLTGssae OSI NS LT SAE		HSKSLPQLTTee SKSLPOLTTEE			86
Sbjct	13610		QSITMTNSPLTDLSAE					13667
Query	85	OMTEVPW OMTE PW	65					
Sbjct	13668	QMTEEPW	13674					

Range 129: 12551 to 12674

Score	E	xpect	Method	Identities	Positives	Gaps	Frame	_
77.0 bits	s(188) 2	e-12()	Compositional matrix adjust.	95/126(75%)	101/126(80%)	2/126(1%)	-2	_
Features	S:							
Query	379		TEVPWtlstslsqsssQAKNIFS TE PWT STSL QSSS+ NIFS			OSIATANSI OS NSI		200
Sbjct	12551		TEKPWTPSTSLPQSSSKTNNIFS			2.		12608

Query	199		aqeetsEHSKSLPQLTTeesssfqessaeENQMTEVPWtlstslsqsssQAKN QEETSE SKSLPQLTTEES SFQESSAE+NQMTE PWTLSTSLSQ+SS+ N	20
Sbjct	12609		NÕEETSELSKSLPÕLTTEESISFÕESSAEQNÕMTEEPWTLSTSLSÕTSSKTNN	12668
Query	19	IFSSPS IFSS S	2	
Sbict	12669	TESSOS	12674	

GD17263 [Drosophila simulans]

Sequence ID: ref|XP_002105717.1| Length: 995 Number of Matches: 11

▶ See 1 more title(s) Range 1: 628 to 810

Score		Expect Method	Identities	Positives	Gaps	Frame
131 bits	(329) \$	5e-31() Compositional matrix adju	ust. 136/191(71%)	146/191(76%)	19/191(9%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSIS NIFSSPS+NEDNISQEDTRTLS S				
Sbjct	628	NIFSSPSTNEDNISQEDTRTLS (
Query	427	LTTeesssfqess	aeENQMTEVPWtlst AEENQMTEVPW		IFSSPSLNED S S+NED	
Sbjct	688	TRGEKSSFQEHTTKESSSFQESSA				
Query	277	ISQEDTRTLSISVPQSIATANSLI SQEDTRTLS S PQS A+SLI				
Sbjct	740	TSQEDTRTLSTSFPQSSTAAHSLI				
Query	97	aeENQMTEVPW 65 AEENQMTEVPW				
Sbjct	800	AEENQMTEVPW 810				

Range 2: 434 to 634

Score		Expect Method	Identities	Positives	Gaps	Frame
127 bits	(319)	8e-30() Compositional matrix adjust.	147/211(70%)	158/211(74%)	20/211(9%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVPONIFSSPS+NEDNISQEDTRTLS S PO				L 425
Sbjct	434	NIFSSPSVNEDNISQEDTRTLSTSFP				S 493
Query	424	TTeesssfqessaeENG T T + SSFOESSAEENG			FSSPSLNEDN S S+NED	I 275
Sbjct	494	TRGEISSFQEHTTKESSFQESSAEEN	~			г 545
Query	274	SQEDTRTLSISVPQSIATANSLLTGS SQEDTRT+SIS QS T NSLLT				
Sbjct	546	SQEDTRTVSIS-QS T NSLLT SQEDTRTVSIS-QSKTTTNSLLTDL				
Query	94	eENOMTEVPWtlstslsqsssQAKNII EEN +TEVPWTLSTSL Q SS NII				
Sbjct	604	EEN TIEVPWILSTSL Q SS NII EENPITEVPWTLSTSLFQLSSNTNNII				

Range 3: 537 to 721

Score		Expect Method	Identities	Positives	Gaps	Frame
124 bits(312) 9	9e-29() Compositional matrix adjust.	142/187(76%)	149/187(79%)	13/187(6%)	-2
Features	:					
Query	592	SPSLNEDNISQEDTRTLSISVPQSIA'S S+NED SOEDTRT+SIS OS		eeqtaqeetsEH E+OT OEETSE		
Sbjct	537	SQSVNEDKTSQEDTRTVSISQSKT				
Query	412	sssfqessaeENQMTEVPWtlstsls SSSFQESSAEEN +TEVPWTLSTSL				
Sbjct	595	SSSFQESSAEENPITEVPWTLSTSLF(
Query	232	SIATANSLLTGssaeeqtaqeetsEHS S TANSLLT SSAEE T OEETSE			ssfqessaeE SSFOESSAEE	
Sbjct	655	SSKTANSLLTVSSAEEHTIQEETSER				
Query	85	QMTEVPW 65 QMTEVPW				
Sbjct	715	QMTEVPW 721				

Score		Expect Method	Identities	Positives	Gaps	Frame
118 bits	(295)	2e-26() Compositional matrix adjust.	143/197(73%)	155/197(78%)	10/197(5%) -	2
Features	s:					
Query	592	SPSLNEDNISQEDTRTLSISVPQSIA S S+NED SQEDTRTLS S PQS				
Sbjct	732	SQSVNEDKTSQEDTRTLSTSFPQSST				
Query	412	sssfqessaeENQMTEVPWtlstsls SSSFOESSAEENOMTEVPWT S+				
Sbjct	792	SSSFQESSAEENQMTEVPWTQSS				
Query	232	SIATANSLLTGssaeeqtaqeetsEH S T NSLLT SAE+QT QEETSE				
Sbjct	842	SKTTTNSLLTDLSAEDQTKQEETSEL				
Query	52	slsqsssQAKNIFSSPS 2 SL O SS NIFSSPS				
Sbjct	902	SLFQLSSNTNNIFSSPS 918				

Range 5: 17 to 201

Score		Expect Method	Identities	Positives	Gaps	Frame
114 bits((285)	4e-25() Compositional matrix adjust.	139/195(71%)	152/195(77%)	10/195(5%)	-2
Features	S :					
Query	592	SPSLNEDNISQEDTRTLSISVPQSIAS S+NED SQEDTRTLS S PQS				
Sbjct	17	SQSVNEDKTSQEDTRTLSTSFPQSST				
Query	412	sssfqessaeENQMTEVPWtlstsls SSSFOESSAEENOMTEVPW				Q 233 Q
Sbjct	77	SSSFQESSAEENQMTEVPW				
Query	232	SIATANSLLTGssaeeqtaqeetsEFS T NSLLT SAE+QT QEET+E				
Sbjct	127	SRTTTNSLLTDLSAEDQTKQEETTEI				
Query	52	slsqsssQAKNIFSS 8 SL Q SS NIFSS				
Sbjct	187	SLFQLSSNTNNIFSS 201				

Range 6: 346 to 526

Score		Expect	Method	Identities	Positives	Gaps	Frame
112 bits	(280)	1e-24()	Compositional matrix adjust.	133/183(73%)	143/183(78%)	12/183(6%)	-2
Features	S :						
Query	583	LNED	NISQEDTRTLSISVPQSIATAN SQEDTR + IS QS T N		aqeetsEHSKS		
Sbjct	346		KTSQEDTRAVLISQSKTTTN				
Query	403		saeENQMTEVPWtlstslsqss SAEEN +TEVPWTLSTSL Q S				A 224
Sbjct	404		SAEENPITEVPWTLSTSLFQLS				ST 463
Query	223	TANS	LLTGssaeeqtaqeetsEHSKS LLT SSAEE T +EETSE SK+:	LPQLT LPÕ T	Teesssfq T + SSFO	essaeENQMT ESSAEENOMT	
Sbjct	464		LLTVSSAEEHTIREETSELSKA				
Query	73	VPW VPW	65				
Sbjct	524	VPW	526				

Range 7: 821 to 972

Score		Expect	Method	Identities	Positives	Gaps	Frame
109 bits(272)	2e-23()	Compositional matrix adjust.	119/154(77%)	126/154(81%)	2/154(1%)	-2
Features):						
Query	592	SPSLN S S+N	IEDNISQEDTRTLSISVPQSIAT IED SQEDTRT+SIS QS T				

Sbjct	821	SQSVNEDKTSQEDTRTVSISQSKTTTNSLLTDLSAEDQTKQEETSELSKSLPQLTTEE	878
Query	412	SSSFQESSAEEN +TEVPWT+STSL Q SS NIFSSPS+NEDNISQEDTRTLSISVPQ	233
Sbjct	879		938
Query	232	SIATANSLLTGssaeeqtaqeetsEHSKSLPQLT 131 S TANSLLT SSAEE T QEETSE SK+LPQ T	
Shict	939	SSTTANSLLI SSALE I QEEISE SKILFQ I SSTTANSLLTVSSAEEHTIOEETSELSKALPOST 972	

Range 8: 106 to 233

Score		Expect Method	Identities	Positives	Gaps	Frame
105 bits	(262)	3e-22() Compositional matrix adjust.	99/130(76%)	107/130(82%)	2/130(1%)	-2
Features	s:					
Query	592	SPSLNEDNISQEDTRTLSISVPQSIAT S S+NED SOEDTRT+SIS OS T		eqtaqeetsEHS +OT OEET+E S		
Sbjct	106	SQSVNEDKTSQEDTRTVSISQSRTT				
Query	412	sssfqessaeENQMTEVPWtlstslsq SSSFOESSAEEN +TEVPWT+STSL O				
Sbjct	164	SSSFQESSAEENPITEVPWTISTSLFQ				
Query	232	SIATANSLLT 203 S TANSLLT				
Sbjct	224	SSTTANSLLT 233				

Range 9: 912 to 972

Score		Ex	pect	Method	Identities	Positives	Gaps	Fra	me
62.8 bits	s(151)	4e-	08()	Compositional matrix adjust.	49/61(80%)	51/61(83%)	0/61(0%)	-2	
Features	S :								
Query	604			SLNEDNISQEDTRTLSISVPQSIAS+NEDNISQEDTRTLS S QS					425
Sbjct	912			SVNEDNISQEDTRTLS 5 Q5					971
Query	424	T T	422						
Sbjct	972	Ť	972						

Range 10: 197 to 233

Score		Expect	Method	Identities	Positives	Gaps	Frame
58.9 bits	s(141)	7e-07()	Compositional matrix adjust.	30/37(81%)	32/37(86%)	0/37(0%)	-2
Features	s:						
Query	604		SLNEDNISQEDTRTLSISVPQSIA ++NEDNISQEDTRTLS S PQS	ATANSLLT 4	94		
Sbjct	197		TVNEDNISQEDTRTLSTSFPQSS		33		

Range 11: 346 to 440

Score		Expect Method	Identities	Positives	Gaps	Frame	
53.9 bits	s(128)	3e-05() Compositional matrix adjust.	72/97(74%)	78/97(80%)	2/97(2%)	-2	
Feature	s:						
Query	292	LNEDNISQEDTRTLSISVPQSIATANSLI +N++ SQEDTR + IS QS T NSLI					,
Sbjct	346	VNKNKTSQEDTRAVLISQSKTTTNSLL					,
Query	112	fqessaeENQMTEVPWtlstslsqsssQAFQESSAEEN +TEVPWTLSTSL Q SS	KNIFSSPS 2	2			
Sbjct	404	FQESSAEENPITEVPWILSTSL Q SS FQESSAEENPITEVPWTLSTSLFQLSSNT		40			

uncharacterized protein Dere_GG27179 [Drosophila erecta]

Sequence ID: ref|XP_015011493.1| Length: 2056 Number of Matches: 16

▶ See 1 more title(s)

Range 1: 1321 to 1495

Score	E	Expect Method	Identities	Positives	Gaps	Frame
115 bits	(289) 1	e-25() Compositional matrix adjust.	124/179(69%)	141/179(78%)	4/179(2%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV IFSS S++ED SQE T IS	POSIATANSLLT	Gssaeeqtaqee	tsEHSKSLP	QL 425
Sbjct	1321	RIFSSQSVDEDKASQEYTISF				
Query	424	TTeesssfqessaeENQMTEVPWtl				
Sbjct	1377	TTDESISFQESSEKENQMSELPWTL				
Query	244	SVPQSIATANSLLTGssaeeqtaqe S PQS AT NSLLT SSAE+QT Q+:				
Sbjct	1437	SFPQSYATENSLLTVSSAEDQTIQK				

Range 2: 796 to 971

Score		Expe	ect N	Method			Identities	Po	ositives	Gaps	Fra	ame
108 bits	(271)	4e-2	3() C	Compositio	nal matrix	adjust.	113/181(62	%) 13	5/181(74%)	6/181(3%) -2	_
Features	S :											
Query	604				SQEDTRTI SQE T		SIATANSLL' S A NSLL'					425
Sbjct	796						SYAIENSLL'					851
Query	424						slsqsssQA S Q S++					245
Sbjct	852						SHHQLSTKT					911
Query	244	SVI	POSI	ATANSLL'	rgsaee	qtaqeet	SEHSKSLP-	OLTTE	esssiqess	SaeENOMTE	VP Y + D	68
Sbjct	912						TV-SISVPQ					970
Query	67	W W	65									
Sbjct	971	W	971									

Range 3: 680 to 895

Score		Expect Method	Identities	Positives	Gaps	Frame
100 bits	(250)	2e-20() Compositional matrix adjust.	133/220(60%)	160/220(72%)	23/220(10%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP +IFSS S++E+ ISO+DTRT+SIS+P				- 440
Sbjct	680	SIFSSQSVDENEISQKDTRTISISLE				E 739
Query	439	SLPQL-TTeesss SLPO TTE+SSS	fqessaeENQM Q+SSAE+NQM			
Sbjct	740	DKTSQEDTRTLSISLPQQSTTEKSSS				
Query	301	SPSLNEDNISQEDTRTLSISVPQSIA S S++ED SQE T IS PQS A	TANSLLTGssa NSLLT SSA			
Sbjct	800	SQSVDEDKASQEYTISFPQSYA				
Query	121	sssfqessaeENQMTEVPWtlstsls S SFQESS +ENQM+E+PWTLSTS				
Sbjct	856	SISFQESSEKENQMSELPWTLSTSHH				

Range 4: 575 to 802

Score		Expect Method	Identities	Positives	Gaps	Frame
99.0 bits((245) 8	Be-20() Compositional matrix adjust.	125/230(54%)	150/230(65%)	31/230(13%)	-2
Features:						
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP(+IFSS S+ ED SQE+TRTLSIS P(etsEH	- 446
Sbjct	575	SIFSSHSVEEDKTSQENTRTLSISFP(— ·	W 634
Query	445	SKSLPQLTTeesssf-qessaeENQ S SLPQL T++ QESSAEENQ				
Sbjct	635	TLSTSLPQLKTKKEIRSPQESSAEEN				
Query	274	SQEDTRTLSISVPQSIATANSLLTGS	saeeqtaqeets	EHSK		- 149

Sbjct	693	SQ+DTRT+SIS+PQ +TAN LLT SSAE+QT QEET+E S SQKDTRTISISLPQLGSTANILLTVSSAEDQTVQEETTEISNQSGEEDKTSQEDTRTLSI	752
Query	148	SLPQL-TTeesssfqessaeENQMTEVPWtlstslsqsssQAKNIFSSPS 2 SLPQ TTE+SSS Q+SSAE+NQMTEVPWTL TSL QSS++ K IFSS S	
Shict	753	SLPOOSTTEKSSSLOOSSAEKNOMTEVPWTLLTSLPOSSTKTKRIFSSOS 802	

Range 5: 21 to 190

Score		Expec	t Method	Identities	Positives	Gaps	Frame
94.7 bits	s(234)	2e-18() Compositional matrix adjust.	112/183(61%)	130/183(71%)	16/183(8%)	-2
Features	s:						
Query	604	NIFS	SPSLNEDNISQEDTRTLSISVP	QSIATANSLLTG	ssaeeqtaqee	tsEHSKSLPO	L 425
Sbjct	21		S S++E+ SQ+DTRT+SIS+PO SQSVDENETSQKDTRTISISLPO				
Query	424		sssfqessaeENQMTEVPWtls SSS OE SAEENOMTEVPWTLS!		IFSSPSLNEDN S P ED	ISQEDTRTLS SQEDTRTLS	
Sbjct	81		SSSLQEFSAEENQMTEVPWTLS				
Query	244	SVP- ++P	QSIATANSLLTGssaeeqtaqe OS +S L SAEE E		TTeesssfq		
Sbjct	128		QSTTEESSSLQEYSAEENQMTE				
Query	73	VPW +PW	65				
Sbjct	188	MPW	190				

Range 6: 1255 to 1420

Score		Expect Method	Identities	Positives	Gaps	Frame
94.4 bits	s(233) 3	Be-18() Compositional matrix adjust.	113/201(56%)	134/201(66%)	35/201(17%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISV +IFSS S+ ED S+EDTRTLSIS+		Gssaeeqtaqe		~
Sbjct	1255	SIFSSQSVEEDKTSKEDTRTLSISL				Q QS 1283
Query	424	TTeesssfqessaeENQMTEVPWtl TTE+SSS O+SSAE+NOMTEVPWTL				SI 245
Sbjct	1284	TTEKSSSLQQSSAEKNQMTEVPWTL				_
Query	244	SVPQSIATANSLLTGssaeeqtaqe S PQS A NSLLT SSA +QT Q+				
Sbjct	1340	SFPQSYAIENSLLTVSSAIDQTMQK				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLSTS O S++ K+ FSS S				
Sbjct	1400	TLSTSHHQLSTKTKSTFSSQS 14	20			

Range 7: 1828 to 2030

Score	E	Expect Method	Identities	Positives	Gaps	Frame
92.0 bits	(227) 2	e-17() Compositional matrix adjust.	112/205(55%)	131/205(63%)	27/205(13%)	-2
Features	3 :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVE ++FS S++ED SOEDT T SIS+E			qeetsEHSKSLI E S SLI	
Sbjct	1828	SLFSRQSVDEDKTSQEDTWTPSISL				- ~
Query	427	L'	TTeesssfqess TTE+SSS Q+SS			sQ 320
Sbjct	1888	LKTKNEDKTSQEDARTLSISLPQQS				1945
Query	319	AKNIFSSPSLNEDNISQEDTRTLSI K+I SS S+ ED SÕE RTLSI	SVPQSIATANSI S PQS AT NSI			
Sbjct	1946	TKSILSSQSVEEDKASQEYLRTLSI				
Query	139	QLTTeesssfqessaeENQMTEVPW Q TTEES S +ESSA+ENQMTE+PW	65			
Sbjct	2006	QSTTEESISLKESSAKENQMTELPW	2030			

Range 8: 1125 to 1327

Score E	Expect Method	Identities	Positives	Gaps	Frame
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87.8 bits(216) 4e-16() Compositional matrix adjust. 120/234(51%) 143/234(61%) 64/234(27%) -2								
Features	S :							
Query	604	NIFSSPSLNEDNISQEDTRTLSISVPQSI+IFS+ S+ ED SOEDTRTLSI++PO	518					
Sbjct	1125	SIFSTQSVEEDKSSQEDTRTLSITLPQQSTTEESSSLQEYSAEENQMTEVQWTPSTSFPQ	1184					
Query	517	ATANSLLTGssaeeqtaqeetsEHSKSLPQLTTeesssfqessaeENQMTEVPWtlst +TANSLLT SSAE+QT QEET+E SKSLPQ TT+ESSS QESSAEENQ TE+ W LST	344					
Sbjct	1185	LSSTANSLLTVSSAEDQTVQEETTEISKSLPQSTTKESSSLQESSAEENQNTELQWALST	1244					
Query	343	slsqsssQAKNIFSSPSLNEDNISQEDTRTLSISVPQSIATANSLLTGssaeeqtaqeet SL + S++A++IFSS S+ ED S+EDTRTLSIS+PO	164					
Sbjct	1245	SLPKLSTKAESIFSSQSVEEDKTSKEDTRTLSISLPQ	1281					
Query	163	sEHSKSLPQLTTeesssfqessaeENQMTEVPWtlstslsqsssQAKNIFSSPS 2 Q TTE+SSS Q+SSAE+NQMTEVPWTL TSL QSS++ K IFSS S						
Sbjct	1282	QSTTEKSSSLQQSSAEKNQMTEVPWTLLTSLPQSSTKTKRIFSSQS 1327						

Range 9: 511 to 667

Score		Expect Method		Identities	Positives	Gaps	Frame
80.9 bits	(198)	9e-14() Compos	itional matrix adjust.	96/190(51%)	108/190(56%)	43/190(22%)	-2
Features	S :						
Query	604		NISQEDTRTLSISVPÇ SOEDTRTLSI +				
Sbjct	511	GIFSSQSVDEDI	SQEDTRTLSI + KTSQEDTRTLSIFL			L Q L QQ L QQ	s 539
Query	424		saeENQMTEVPWtlst SAEENQMTEV WTLS1				
Sbjct	540		SAEENÕMTEVTWTLST				
Query	244	SVPOSIATANSI	LLTGssaeeqtaqeet LLT S +	SEH	SKSLPQLTT	eesssf-qess ++ OESS	
Sbjct	598		LLTVSKESSSLQESS <i>E</i>				
Query	94	eENQMTEVPW EENQMTEV W	65				
Sbjct	658	EENOMIEV W	667				

Range 10: 1 to 103

Score		Expect Method	Identities	Positives	Gaps	Frame
77.0 bits	s(188)	2e-12() Compositional matrix adjust.	72/103(70%)	89/103(86%)	0/103(0%)	-2
Feature	s:					
Query	373	MTEVPWtlstslsqsssQAKNIFSSPSI				
Sbjct	1	MTEVPWTLSTSL++ S++ ++IFSS S+ MTEVPWTLSTSLTKLSTKTESIFSSQSV				
Query	193	aeeqtaqeetsEHSKSLPQLTTeesssf AE+QT Q+ET+E SKSLPQ TT+ESSS				
Sbjct	61	AETOT OTETTE SKSLPO TITESSS AEDOTVOKETTEISKSLPOSTTKESSSI				

Range 11: 325 to 517

Score		Expect Method	Identities	Positives	Gaps	Frame
74.7 bits	(182)	8e-12() Compositional matrix adjust.	119/226(53%)	132/226(58%)	58/226(25%)	-2
Features	S :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP				
Sbjct	325	IFSS S++ED SQEDTRTLSI +P GIFSSQSVDEDKTSQEDTRTLSIFLP				
Query	427	LT	Teesssfqessa TEESSS QESSA			Q 320
Sbjct	385	LKTKNEDKTSQEDTRTVSISVPQQYT				- 442
Query	319	AKNIFSSPSLNEDNISQEDTRTLSIS K+IFS S+ ED SQEDTRT+SIS		LTGssaeeqtad	geetsEHSKSL	P 140
Sbjct	443	TKSIFSRQSVGEDKTSQEDTRTVSIS				- 471
Query	139	QLTTeesssfqessaeENQMTEVPWt Q TTEESSS QESSAEENQMTE+PWT			2	
Sbjct	472	QSTTEESSS QESSAEENOMTE TWI QSTTEESSSLQESSAEENOMTEMPWT			517	

Score		Expect Method	Identities	Positives	Gaps	Frame
72.4 bits	s(176)	4e-11() Compositional matrix adjust.	122/225(54%)	144/225(649	%) 32/225(14%)	-2
Features	s:					
Query	589	PSLNEDNISQEDTRTLSISVPQ-SIA P ED SOEDTRTLSI++PO S			EHSKSLPQLT S SLPOL T	
Sbjct	110	PQSKEDKSSQEDTRTLSITLPQQSTT				_
Query	418	eesssfqessaeENQMTEVPWtlsts ++SSS QESSAEENQMTE+PWTLSTS	lsqsssQAKNII	FSSPSLNEDN	ISQEDTRTLSIS SOEDTRT+SIS	
Sbjct	170	KKSSSLQESSAEENQMTEMPWTLSTS				
Query	238	PQ PQ	-SIATANSLLTO			
Sbjct	228	PQQSTTEESSSLQESSAEENQMTEVT				
Query	133	-TTeesssfqessaeENQMTEVPWtl TTEESSS QESSAEEN MTE+PWTL			2	
Sbjct	287	STTEESSSLÕESSAEENHMTEIPWTL			331	

Range 13: 203 to 432

Score		Expect Method	Identities	Positives	Gaps	Frame
70.5 bits	s(171)	2e-10() Compositional matrix adjust.	117/231(51%)	139/231(60%)	52/231(22%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP +IFS S+ ED SOEDTRT+SIS+P			SIATANS +++T+ S	
Sbjct	203	SIFSRQSVGEDKTSQEDTRTVSISLP		QESSAEENQMTI		
Query	499	LTGssaeeqtaqeetsEHSKSLPQL- L + E++T+OE+T S SLPO	TTeesssfqess TTEESSS QESS			
Sbjct	263	L-KTKNEDKTSÕEDTRTVSISLPÕOS				
Query	322	QAKNIFSSPSLNEDNISQEDTRTLSI + K IFSS S++ED SQEDTRTLSI			taqeetsEHSK E T S	
Sbjct	322	KTKGIFSSQSVDEDKTSQEDTRTLSI				-
Query	145	LPQL LPQL		essaeENQMTE ESSAEENOMTE		
Sbjct	382	LPQL LPQLKTKNEDKTSQEDTRTVSISVPQ				

Range 14: 1023 to 1261

Score	E	xpe	ct Method	Identities	Positives	Gaps	Frame
68.9 bits	(167) 6	e-10	() Compositional matrix adjust.	127/241(53%)	145/241(60%)	49/241(20%)	-2
Features	S :						
Query	583		EDNISQEDTRTLSISVPQSIATA			SKSLPQL S S POL	425
Sbjct	1023	_	ED SQEDT T SIS+PQ T EDKTSQEDTWTPSISLPQQSTTK:			~	LS 1082
Query	424		TTeesssfqessaeENQM TTEESSS QESSAEENQM				
Sbjct	1083	IS	LPQQSTTEESSSLQESSAEENQM LPQQSTTEESSSLQESSAEENQM				SQE SQE 1140
Query	265		RTLSISVPQS RTLSI++PO			TANSLLTGssa TANSLLT SSA	
Sbjct	1141		RTLSITLPQQSTTEESSSLQEYS.	AEENQMTEVQW			
Query	184		aqeetsEHSKSLPQLTTeesssf QEET+E SKSLPQ TT+ESSS				
Sbjct	1201		VQEETTEISKSLPQSTTKESSSL				
Query	4	S S	2				
Sbjct	1261	S	1261				

Range 15: 1532 to 1681

Score		Expect	Method	Identities	Positives	Gaps	Frame
58.2 bits	s(139)	1e-06()	Compositional matrix adjust.	83/150(55%)	91/150(60%)	23/150(15%)	-2
Features	S :						
Query	445	SKSL	PQLTTeesssf-qessaeENQM	TEVPWtlstsl	sqsssQAKNI	FSS	299

Sbjct	1532	S SLPQL T++ QESSAEENQMTEV WTLSTSL QSS++ K IFSS STSLPQLKTKKEIRSPQESSAEENQMTEVTWTLSTSLPQSSTKTKRIFSSQSVDEDKT	rsq 1591
Query	298	PSLNEDNISQEDTRTLSISVPQSIAT-ANSLLTGssaeeqtaqeetsEP	
Sbjct	1592	ANTMTLSISFPQSDEDKTSQEDTRTVSISVPQQYTTEERSSLQESSAEENQMTEMPWT	
Query	151	KSLPQLTTeess-sfqessaeENQMTEVPW 65 SLPQL T++ S S QESSA ENQMTEVPW	
Sbjct	1652		

Range 16: 1602 to 1831

Score E		Expect Method	Identities	Positives	Gaps	Frame	
57.4 bits	s(137) 2	e-06() Compositional matrix adjust.	115/230(50%)	137/230(59%)	37/230(16%)	-2	
Features:							
Query	589	PSLNEDNISQEDTRTLSISVPQSIA P +ED SQEDTRT+SISVPQ			EHSKSLPOLTI S SLPOL I		
Sbjct	1602	PQSDEDKTSQEDTRTVSISVPQQYT					
Query	412				329		
Sbjct	1662	S S QESSA ENQMTEVPW LSTS QSISLQESSAVENQMTEVPWALSTS		SLQESSAEENQI	MTEVPGTLSTS	SLP 1721	
Query	328	ssQAKNIFSSPSLNEDNISQEDT ++ K+I S E+N E T					
Sbjct	1722	++ K+I S E+N E T QLKTKKKSISLQESSAEENQMTEVT	TLS S+PQS WTLSTSLPQSS		SSAE+QT Q+E SSAEDQTMQKE		
Query	160	EHSKSLPQLTTeesssfqessaeEN					
Sbjct	1782	E SKSLPQ TTEE+ SFÕESSA+EN EISKSLPQSTTEETISFQESSAKEN					

uncharacterized protein Dyak_GE27476, partial [Drosophila yakuba] Sequence ID: **ref|XP_015044596.1**| Length: 253 Number of Matches: 3

▶ See 1 more title(s) kange 1: 21 to 221

Score		Expect Method	Identities	Positives	Gaps	Frame
98.6 bits	(244)	4e-21() Compositional matrix adjust.	136/201(68%)	152/201(75%)	0/201(0%)	-2
Features	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVP(IFSS S+N+D S+EDTRTLSIS (
Sbjct	21	IFSS S+N+D S+EDTRTLSIS (RIFSSQSVNKDRTSEEDTRTLSISPF(
Query	424	TTeesssfqessaeENQMTEVPWtlst			SQEDTRTLS S+EDTRTLS	
Sbjct	81	TTEESSSFQESS EENQMTEGPWTLST				
Query	244	SVPQSIATANSLLTGssaeeqtaqeet S QS ANS T SSAE+QT +EET				
Sbjct	141	S QS ANS T SSAE+QT +EET SNFQSSTMANSFPTVSSAEDQTIKEET				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLST L SS+O + IFSS S				
Sbjct	201	TLSTKLLPSSTQTERIFSSQS 221				

Range 2: 119 to 249

Score		Expect	Method		Identities	Positives	Gaps	Fran	me
84.3 bits	s(207)	3e-16()	Compos	itional matrix adjust.	87/131(66%)	99/131(75%)	0/131(0%)	-2	
Features	S :								
Query	601			SQEDTRTLSISVPQSI S+EDTRTLSIS QS					422
Sbjct	119			SEEDTRTLSIS OS SEEDTRTLSISNFQSS				_	178
Query	421			eENQMTEVPWtlstsl EENOMTEVPWTLST L					242
Sbjct	179			EENÕMTEVPWTLSTKL					238
Query	241	VPQSI. QS	ATANSL ANSL	209					
Sbjct	239		TMANSL	249					

Score		Expect Method	Identities	Positives	Gaps	Frame
64.7 bits	s(156)	2e-09() Compositional matrix adjust.	86/124(69%)	95/124(76%)	0/124(0%)	-2
Features	s:					
Query	373	MTEVPWtlstslsqsssQAKNIFSSPSI MTEVPWTLST L SS+O + IFSS S+				
Sbjct	1	MTEVPWILST L SSTQ T IFSS ST MTEVPWILSTKLLPSSTQTERIFSSQSV			ANSL T MANSLPTVI	
Query	193	aeeqtaqeetsEHSKSLPQLTTeesssf AE QT QEET+E LPQ TTEESSSF				
Sbjct	61	AE OT QUETTE LIFO TIEBSSE AEIQTIQEETTEFLNPLPQSTTEESSSE				
Query	13	SSPS 2 SS S				
Sbjct	121	SSQS 124				

uncharacterized protein Dyak_GE28509 [Drosophila yakuba]

Sequence ID: ref|XP_015045967.1| Length: 478 Number of Matches: 4

▶ See 1 more title(s) kange 1: 68 to 268

Score		Expect Method	Identities	Positives	Gaps	Frame
99.8 bits	s(247)	8e-21() Compositional matrix adjust.	134/201(67%)	155/201(77%)	0/201(0%) -	-2
Feature	s:					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVPQ +IFSS S +++ IS+EDTRTLSIS Q				L 425
Sbjct	68	SIFSSQSEDKNRISKEDTRTLSISPFQ				5 127
Query	424	TTeesssfqessaeENQMTEVPWtlst TTEESSSFQESS EEN MTEVPWTLST				
Sbjct	128	TTEESSSFQESSEEENHMTEVPWTLST				
Query	244	SVPQSIATANSLLTGssaeeqtaqeet S QS A SL T SSAE +T +E T	SEHSKSLPOLTI	leesssfqessa	eENOMTEVPV	N 65
Sbjct	188	SPFQSGTMAKSLPTVSSAEIETIKEAT				
Query	64	tlstslsqsssQAKNIFSSPS 2 TLST L Q+S+Q K+IFSS S				
Sbjct	248	TLSTKLPQTSTQTKSIFSSQS 268				

Range 2: 165 to 296

Score		Expect Method	Identities	Positives	Gaps	Frame
86.7 bits	(213)	3e-16() Compositional matrix adjust.	88/132(67%)	101/132(76%)	0/132(0%)	-2
Features	3 :					
Query	604	NIFSSPSLNEDNISQEDTRTLSISVPQ +IFSS S++ED S+EDTRTLSIS Q				•
Sbjct	165	SIFSSQSVDEDRTSEEDTRTLSISPFQ				•
Query	424	TTeesssfqessaeENQMTEVPWtlst				
Sbjct	225	TTEESSSFQESSEEENQMTEVPWTLST				
Query	244	SVPQSIATANSL 209 S OS ANSL				
Sbjct	285	SPFQSSTMANSL 296				

Range 3: 27 to 171

Sco	re	Expect	Method	identities	Positives	Gaps	Frame
72.0	bits(175)	3e-11()	Compositional matrix adjust.	102/145(70%)	116/145(80%)	0/145(0%)	-2
Fea	tures:						
Que	ry 436		TeesssfqessaeENQMTEVPWt				
Sbj	ct 27		TEGSSSFQESSEEENQMTEVPWT				

Query	256	12010 11 201111111022100000000000000000	77
Sbjct	87	TLSIS QS ANSL T SSAE +T +E+T+E LPQ TTEESSSFQESS EEN MT TLSISPFQSSTMANSLPTVSSAEIETIKEKTTEFLTPLPQSTTEESSSFQESSEEENHMT	146
Query	76	EVPWtlstslsqsssQAKNIFSSPS 2	
Sbict	147	EVPWTLST L Q+S+Q K+IFSS S EVPWTLSTKLPOTSTOTKSIFSSOS 171	

Range 4: 262 to 348

Score		Expect M	lethod	Identities	Positives	Gaps	Frame
51.2 bits	s(121)	2e-04() C	ompositional matrix adjust.	55/124(44%)	67/124(54%)	37/124(29%)	-2
Features	s:						
Query	604	NIFSSPS +IFSS S	SLNEDNISQEDTRTLSISVPQS S++ED S+EDTRTLSIS OS		ssaeeqtaqee SSAE+OT O+-		
Sbjct	262	~	SVDEDRTSEEDTRTLSIS QS				
Query	424	TTeesss TTEE	sfqessaeENQMTEVPWtlsts	slsqsssQAKN	IFSSPSLNEDI S S+ ED	NISQEDTRTLS SQEDT+TLS	
Sbjct	322	TTEE				ETSÕEDTKTLS	
Query	244	SVPQ 2 S+PQ	233				
Sbjct	345		348				

uncharacterized protein Dsimw501_GD28225 [Drosophila simulans]

Sequence ID: **gb|KMZ10072.1|** Length: 1134 Number of Matches: 3 Range 1: 997 to 1128

Score	E	Expect Method	Identities	Positives	Gaps	Frame
100 bits(2	250) 1	e-20() Compositional matrix adjust.	104/138(75%)	110/138(79%)	6/138(4%)	-2
Features:						
Query	544	LSISVPQSIATANSLLTGssaeeqta				
Sbjct	997	LSI +POS ATANSLLT SSAEEŌT LSIYLPŌSSATANSLLTDSSAEEŌTI				
Query	364	VPWtlstslsqsssQAKNIFSSPSLN VPW +S KNIFSS + N	EDNISQEDTRTI EDNISQEDTRTI		NSLLTGssa NSLLT SSA	
Sbjct	1057	VPWKQPSSRTKNIFSSQTEN				
Query	184	qtaqeetsEHSKSLPQLT 131 T QEETSE SK+LPQ T				
Sbjct	1111	HTIQEETSELSKALPQST 1128				

Range 2: 1068 to 1128

Score		Exp	ect	Method	Identities	Positives	Gaps	Frame	<u>e</u>
60.1 bits	s(144)	4e-0	7()	Compositional matrix adjust.	47/61(77%)	49/61(80%)	0/61(0%)	-2	
Features	S :								
Query	604				ATANSLLTGssaeeqtaqeetsEHSKSLPQL TANSLLT SSAE T QEETSE SK+LPQ				425
Sbjct	1068			QTENEDNISQEDTRTLSTSFPQSS					1127
Query	424	T	42	2					
Sbjct	1128	Ť	11	.28					

Range 3: 997 to 1072

Score		Expect	Method	Identities	Positives	Gaps	Fram	<u>e</u>
54.7 bits	(130)	2e-05()	Compositional matrix adjust.	64/82(78%)	68/82(82%)	6/82(7%)	-2	
Features	:							
Query	253		POSIATANSLLTGssaeeqtaqee					74
Sbjct	997		POSSATANSLLTDSSAEEQTIQKI					1056
Query	73	VPWtl VPW	stslsqsssQAKNIFSS 8 Q SS+ KNIFSS					

Sbjct 1057 VPW-----KQPSSRTKNIFSS 1072