

RIKEN Clone ID : IRAK084E13

Lot#: 7893_B419

Vector : pCMV-SPORT6

Gene	ARMC8	
Accession No.	BC041699.1	2705 bp
	<i>CDS</i>	1980 bp

● **Plasmid DNA purification**

Date : 2024/09/10

Culture : LB (100 ug/ml Ampicillin) 5 ml -> at 37 deg C over night

Date : 2024/09/11

Purification : QIAGEN Miniprep kit -> dH₂O 100 ul

● **Digestion by restriction enzyme/Concentration calibration**

Date : 2024/09/11

DNA concentration (O.D.): 203 ng/ul

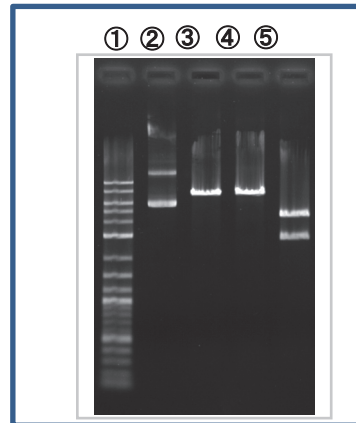
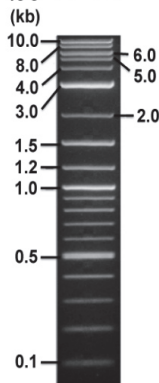
< Size of fragment expected from this clone >

DNA	0.5	ul
Enzyme (EcoRI + XhoI)	0.5 + 0.5	ul
Buffer H	1	ul
dH ₂ O	7.5	ul
Total	10	ul

EcoRI	7.0	kb
XhoI	7.0	kb
EcoRI + XhoI	4.3kb (Vector)	2.7 kb

Electrophoresis : 1% agarose gel, 1x TAE Buffer

Marker : 2-Log DNA Ladder (NEB#N3200L)



①:Marker
②:uncut
③:EcoRI
④:XhoI
⑤:EcoRI + XhoI

● **Adjust plasmid DNA solution to 25 ng/ul**

Date : 2024/09/20

DNA (<u>203</u> ng/ul)	82	ul
10x TE	67	ul
dH ₂ O	517	ul
Total	666	ul

● **Confirmation of the sequence**

Date : 2024/09/19

Primer A	-
Primer B	-
Primer C	IRAK084E13hts01.seq
List of Sequencing Primers	-

● **Shipping**

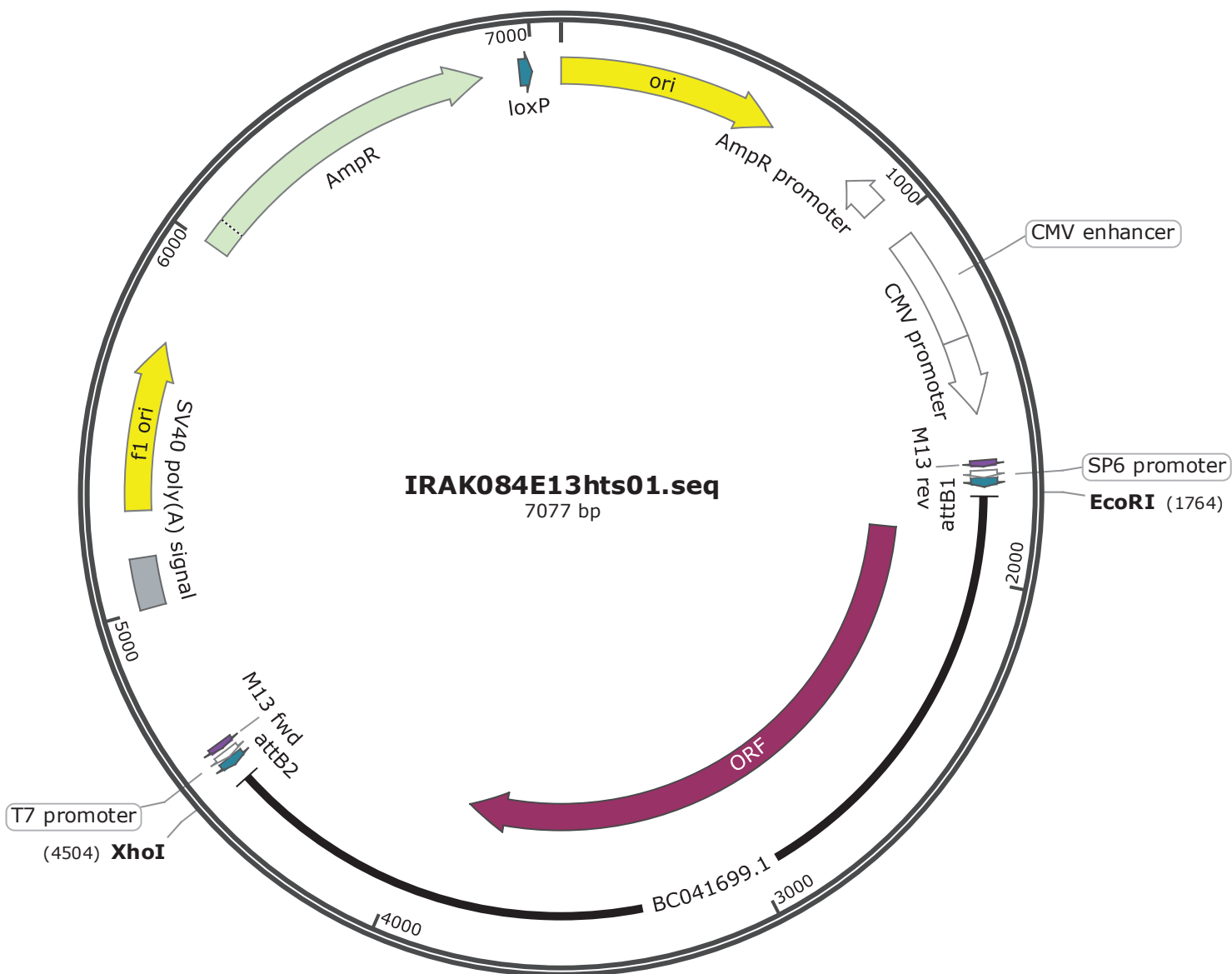
Conc. : 25 ng/ul, Volume : 40 ul

Conc. : ng/ul, Volume : ul

APPROVED BY :

<http://dna.brc.riken.jp/index.html>





BLAST Results

[Questions/comments](#)

Blast 2 sequences

Job title: BC041699:Homo sapiens armadillo repeat containing...

RID [ER9MHG2U114](#) (Expires on 09-20 12:20 pm)Query ID [BC041699.1](#)Description Homo sapiens armadillo repeat containing 8, mRNA
(cDNA clone MGC:48800 IMAGE:5240423), complete cds

Molecule type nucleic acid

Query Length 2705

Subject ID Icl|Query_7062067

Description None

[See details](#)

Molecule type dna

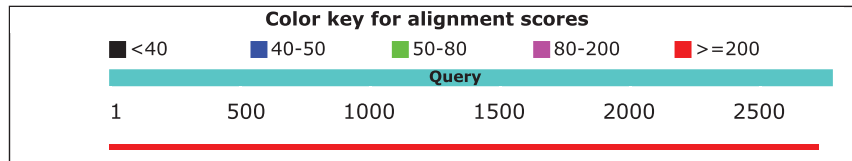
Subject Length 7077

Program BLASTN 2.16.0+

IRAKO84E13hts01.seq

[Graphic Summary](#)

Distribution of the top 1 Blast Hits on 1 subject sequences

[Dot Matrix View](#)[Descriptions](#)

Sequences producing significant alignments:

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
None provided	4996	4996	100%	0.0	100.00%	Query_7062067

[Alignments](#)Sequence ID: Query_7062067 Length: 7077 Number of Matches: 1
Range 1: 1777 to 4481

Score	Expect	Identities	Gaps	Strand	Frame
4996 bits(2705)	0.0()	2705/2705(100%)	0/2705(0%)	Plus/Plus	
Features:					
Query	1	GGAGACCCCAATCCGCATGAGCGTCCTTTCCGGACCAGGAATGAAAGTTACTGGGAGATAA	60		
Sbjct	1777	GGAGACCCCAATCCGCATGAGCGTCCTTTCCGGACCAGGAATGAAAGTTACTGGGAGATAA	1836		
CDS:Armadillo repeat	1	CTTCGAAGGATTTGCAACAAATTCGAGCTGTCCGACTCTGAGAATGGAAGTAACAGCTA	120	M E V T A	
Query	61	CTTCGAAGGATTTGCAACAAATTCGAGCTGTCCGACTCTGAGAATGGAAGTAACAGCTA	1896		
Sbjct	1837	CTTCGAAGGATTTGCAACAAATTCGAGCTGTCCGACTCTGAGAATGGAAGTAACAGCTA	1956		
CDS:Armadillo repeat	6	S S R H Y V D R L F D P D P Q K V L Q G	180		
Query	121	GCAGTCGCCACTATGTTGACAGGCTATTTGACCCTGATCCCAGAAAGTTCTACAAGGTG	1956		
Sbjct	1897	GCAGTCGCCACTATGTTGACAGGCTATTTGACCCTGATCCCAGAAAGTTCTACAAGGTG	2016		
CDS:Armadillo repeat	26	V I D M K N A V I G N N K Q K A N L I V	240		
Query	181	TCATAGACATGAAAAATGCTGTAATTGGAAACAACAAGCAGAAAGCCAATCTCATTGTTT	2076		
Sbjct	1957	TCATAGACATGAAAAATGCTGTAATTGGAAACAACAAGCAGAAAGCCAATCTCATTGTTT	2136		
CDS:Armadillo repeat	46	L G A V P R L L Y L L Q Q E T S S T E L	300		
Query	241	TAGGAGCTGTTCCAAGATTGTTGACTTGCTTCAGCAAGAAACCTCAAGCACAGAGCTGA	2076		
Sbjct	2017	TAGGAGCTGTTCCAAGATTGTTGACTTGCTTCAGCAAGAAACCTCAAGCACAGAGCTGA	2076		

CDS:Armadillo repeat	66	K T E C A V V L G S L A M G T E N N V K	
Query	301	AAACTGAATGTGCAGTGGTGTGGGAAGCTTGGTATGGGTACTGAAAACATGTCAAGT	360
Sbjct	2077	AAACTGAATGTGCAGTGGTGTGGGAAGCTTGGTATGGGTACTGAAAACATGTCAAGT	2136
CDS:Armadillo repeat	86	S L L D C H I I P A L L Q G L L S P D L	
Query	361	CTCTACTGGACTGCCATATTATCCCTGCCTTATTGCAAGGACTACTGTCCCAGACCTGA	420
Sbjct	2137	CTCTACTGGACTGCCATATTATCCCTGCCTTATTGCAAGGACTACTGTCCCAGACCTGA	2196
CDS:Armadillo repeat	106	K F I E A C L R C L R T I F T S P V T P	
Query	421	AGTTTATTGAAGCTTGCTCCGATGCCGCTGCGTACCATCTTACCAGTCTGTCACTCCAG	480
Sbjct	2197	AGTTTATTGAAGCTTGCTCCGATGCCGCTGCGTACCATCTTACCAGTCTGTCACTCCAG	2256
CDS:Armadillo repeat	126	E E L L Y T D A T V I P H L M A L L S R	
Query	481	AGGAGCTACTGTATACAGATGCCACAGTATACCACACCTCATGGCACTGCTTAGCAGGT	540
Sbjct	2257	AGGAGCTACTGTATACAGATGCCACAGTATACCACACCTCATGGCACTGCTTAGCAGGT	2316
CDS:Armadillo repeat	146	S R Y T Q E Y I C Q I F S R H C C K G P D	
Query	541	CCCGCTATACCCAGGAGTACATCTGTGCAGATCTTCTCACACTGCTGTAAGGGCCAGATC	600
Sbjct	2317	CCCGCTATACCCAGGAGTACATCTGTGCAGATCTTCTCACACTGCTGTAAGGGCCAGATC	2376
CDS:Armadillo repeat	166	H Q T I L F N H G A V Q N I A H L L T S	
Query	601	ATCAAAACAAATTTTATTTAACCCAGGTGCAGTTCAGAATATTGCTCACCTACTAACCTCAC	660
Sbjct	2377	ATCAAAACAAATTTTATTTAACCCAGGTGCAGTTCAGAATATTGCTCACCTACTAACCTCAC	2436
CDS:Armadillo repeat	186	L S Y K V R M Q A L K C F S V L A F E N	
Query	661	TGTCCTACAAAGTTCGAATGCAAGCACTGAAATGTTTCTCAGTTTAGCTTTTAAAAACC	720
Sbjct	2437	TGTCCTACAAAGTTCGAATGCAAGCACTGAAATGTTTCTCAGTTTAGCTTTTAAAAACC	2496
CDS:Armadillo repeat	206	P Q V S M T L V N V L V D G E L L P Q I	
Query	721	CCCAGGTATCGATGACCTGGTAAATGTTTGGTTGATGGAGAATTGTACCACAGATTT	780
Sbjct	2497	CCCAGGTATCGATGACCTGGTAAATGTTTGGTTGATGGAGAATTGTACCACAGATTT	2556
CDS:Armadillo repeat	226	F V K M L Q R D K P I E M Q L T S A K C	
Query	781	TTGTGAAGATGTTACAGAGGGATAAGCCTATTGAGATGCAGCTCACATCAGCAAAATGTT	840
Sbjct	2557	TTGTGAAGATGTTACAGAGGGATAAGCCTATTGAGATGCAGCTCACATCAGCAAAATGTT	2616
CDS:Armadillo repeat	246	L T Y M C R A G A I R T D D N C I V L K	
Query	841	TAACCTACATGTGTAGAGCTGGAGCAATTCGGACAGATGATAACTGTATTGTATTAAGA	900
Sbjct	2617	TAACCTACATGTGTAGAGCTGGAGCAATTCGGACAGATGATAACTGTATTGTATTAAGA	2676
CDS:Armadillo repeat	266	T L P C L V R M C S K E R L L E E R V E	
Query	901	CATTACCTTGTGGTTCGAATGTGCAGTAAAGGAGAGATTACTAGAGGAGAGAGTTGAAG	960
Sbjct	2677	CATTACCTTGTGGTTCGAATGTGCAGTAAAGGAGAGATTACTAGAGGAGAGAGTTGAAG	2736
CDS:Armadillo repeat	286	G A E T L A Y L I E P D V E L Q R I A S	
Query	961	GAGCTGAGACACTTGCCCTATCTGATTGAACCAGATGTTGAGCTACAGAGAATCGCTAGCA	1020
Sbjct	2737	GAGCTGAGACACTTGCCCTATCTGATTGAACCAGATGTTGAGCTACAGAGAATCGCTAGCA	2796
CDS:Armadillo repeat	306	I T D H L I A M L A D Y F K Y P S S V S	
Query	1021	TAACCTGATCACCTCATTGCCATGCTTGCTGATTATTTCAAGTATCCCAGCTCAGTGAGTG	1080
Sbjct	2797	TAACCTGATCACCTCATTGCCATGCTTGCTGATTATTTCAAGTATCCCAGCTCAGTGAGTG	2856
CDS:Armadillo repeat	326	A I T D I K R L D H D L K H A H E L R Q	
Query	1081	CCATCACTGATATTTAAAAGGCTTGATCATGATTTAAAACATGCTCAGCAACTCCGCCAGG	1140
Sbjct	2857	CCATCACTGATATTTAAAAGGCTTGATCATGATTTAAAACATGCTCAGCAACTCCGCCAGG	2916
CDS:Armadillo repeat	346	A A F K L Y A S L G A N D E D I R K K I	
Query	1141	CTGCATCAAGCTCTATGCCCTCTTGGAGCAATGATGAAGACATCCGGAAGAAGATCA	1200
Sbjct	2917	CTGCATCAAGCTCTATGCCCTCTTGGAGCAATGATGAAGACATCCGGAAGAAGATCA	2976
CDS:Armadillo repeat	366	I E T E N M M D R I V T G L S E S S V K	
Query	1201	TTGAGACTGAAAATATGATGGACCGAATGTGACTGGCTTGCTGAGTCTAGTGTCAAGG	1260
Sbjct	2977	TTGAGACTGAAAATATGATGGACCGAATGTGACTGGCTTGCTGAGTCTAGTGTCAAGG	3036
CDS:Armadillo repeat	386	V R I A A V R C L H S L S R S V Q Q L R	
Query	1261	TGCGGTAGCTGCCGTGAGATGTTGCACAGTTTATCCAGATCTGTGCAGCAGCTTCGAA	1320
Sbjct	3037	TGCGGTAGCTGCCGTGAGATGTTGCACAGTTTATCCAGATCTGTGCAGCAGCTTCGAA	3096
CDS:Armadillo repeat	406	T S F Q D H A V W K P L M K V L Q N A P	
Query	1321	CCAGTTTCCAGGATCATGCTGTTTGGAAACCTTAAATGAAGGTTTACAAAATGCACAG	1380
Sbjct	3097	CCAGTTTCCAGGATCATGCTGTTTGGAAACCTTAAATGAAGGTTTACAAAATGCACAG	3156
CDS:Armadillo repeat	426	D E I L V V A S S M L C N L L L E F S P	
Query	1381	ATGAAATCCTAGTGGTAGCATCTTCCATGCTGTGAATCTTCTTGAATTTTCTCCAA	1440
Sbjct	3157	ATGAAATCCTAGTGGTAGCATCTTCCATGCTGTGAATCTTCTTGAATTTTCTCCAA	3216
CDS:Armadillo repeat	446	S K E P I L E S G A V E L L C G L T Q S	
Query	1441	GCAAAGAGCCAAATTTGGAATCAGGAGCCGTAGAGCTACTTTGTGGAATTAECTCAGAGTG	1500
Sbjct	3217	GCAAAGAGCCAAATTTGGAATCAGGAGCCGTAGAGCTACTTTGTGGAATTAECTCAGAGTG	3276
CDS:Armadillo repeat	466	E N P A L R V N G I W A L M N M A F Q A	
Query	1501	AAAATCTGCCTTACGAGTGAATGGAATTTGGGCTTAAATGAATATGGCATTTCAGGCTG	1560
Sbjct	3277	AAAATCTGCCTTACGAGTGAATGGAATTTGGGCTTAAATGAATATGGCATTTCAGGCTG	3336
CDS:Armadillo repeat	486	E Q K I K A D I L R S L S T E Q L F R L	
Query	1561	AACAAAAATAAAAGCAGATATTTACGAAGCTTGAGTACTGAACAGCTATTCGGTTAT	1620
Sbjct	3337	AACAAAAATAAAAGCAGATATTTACGAAGCTTGAGTACTGAACAGCTATTCGGTTAT	3396
CDS:Armadillo repeat	506	L S D S D A L N V L M K T L G L L R N L L	
Query	1621	TATCAGATTCAGATTTGAATGTGCTGATGAAGACATGGGACTTCTTAGAAATCTCCTCT	1680
Sbjct	3397	TATCAGATTCAGATTTGAATGTGCTGATGAAGACATGGGACTTCTTAGAAATCTCCTCT	3456
CDS:Armadillo repeat	526	S T R P H I D K I M S T H G K Q I M Q A	
Query	1681	CCACTGCTCCTATAGATAAAATAATGAGTACTCATGGAAAGCAAATATGCAAGCCG	1740

BLAST Results

[Questions/comments](#)

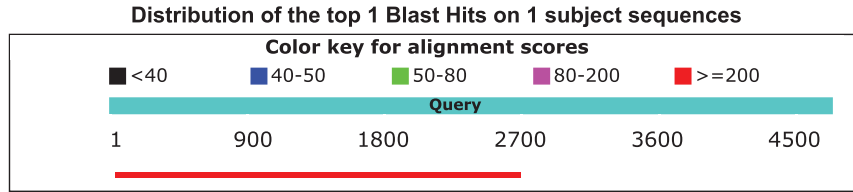
Blast 2 sequences

Job title: NM_015396:Homo sapiens armadillo repeat containing...

RID [DX7YH0VY114](#) (Expires on 09-10 15:12 pm)
Query ID [NM_015396.6](#)
Description Homo sapiens armadillo repeat containing 8 (ARMC8), transcript variant 2, mRNA
Molecule type nucleic acid
Query Length 4603

Subject ID [BC041699.1](#)
Description Homo sapiens armadillo repeat containing 8, mRNA (cDNA clone MGC:48800 IMAGE:5240423), complete cds [See details](#)
Molecule type nucleic acid
Subject Length 2705
Program BLASTN 2.16.0+

[Graphic Summary](#)



[Dot Matrix View](#)

[Descriptions](#)

Sequences producing significant alignments:

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
Homo sapiens armadillo repeat containing 8, mRNA (cDNA clone MGC:48800 IMAGE:5240423), complete cds	4844	4844	56%	0.0	100.00%	BC041699.1

[Alignments](#)

Homo sapiens armadillo repeat containing 8, mRNA (cDNA clone MGC:48800 IMAGE:5240423), complete cds

Sequence ID: **BC041699.1** Length: 2705 Number of Matches: 1
 Range 1: 1 to 2623

Score	Expect	Identities	Gaps	Strand	Frame
4844 bits(2623)	0.0()	2623/2623(100%)	0/2623(0%)	Plus/Plus	
Features:					
Query	39	GGAGACCCCAATCCGCATGAGCGTCCTTTTCGGACCAGGAATGAAAGTTACTGGGAGATAA	98		
Sbjct	1	GGAGACCCCAATCCGCATGAGCGTCCTTTTCGGACCAGGAATGAAAGTTACTGGGAGATAA	60		
CDS:armadillo repeat	1			M E V T A	
Query	99	CTTCGAAGGATTTTGCAACAAATTCGAGCTGTCCGACTCTGAGAAATGGAAGTAACAGCTA	158		
Sbjct	61	CTTCGAAGGATTTTGCAACAAATTCGAGCTGTCCGACTCTGAGAAATGGAAGTAACAGCTA	120		
CDS:Armadillo repeat	1			M E V T A	
CDS:armadillo repeat	6	S S R H Y V D R L F D P D P Q K V L Q G	218		
Query	159	GCAGTCGCCACTATGTTGACAGGCTATTTGACCCGTATCCCAGAAAGTTCTACAAGGTG	218		
Sbjct	121	GCAGTCGCCACTATGTTGACAGGCTATTTGACCCGTATCCCAGAAAGTTCTACAAGGTG	180		
CDS:Armadillo repeat	6	S S R H Y V D R L F D P D P Q K V L Q G			
CDS:armadillo repeat	26	V I D M K N A V I G N N K Q K A N L I V	278		
Query	219	TCATAGACATGAAAAATGCTGTAATTTGAAACAACAAGCAGAAAGCCAATCTCATTGTTT			

Sbjct	181	TCATAGACATGAAAAATGCTGTAATTGGAAACAACAAGCAGAAAGCCAATCTCATTGTTT	240
CDS:Armadillo repeat	26	V I D M K N A V I G N N K Q K A N L I V	
CDS:armadillo repeat	46	L G A V P R L L Y L L Q Q E T S S T E L	
Query	279	TAGAGCTGTTCCAAGATTGTTGTAAGTCTGCTTCAGCAAGAAACCTCAAGCACAGACTGA	338
Sbjct	241	TAGAGCTGTTCCAAGATTGTTGTAAGTCTGCTTCAGCAAGAAACCTCAAGCACAGACTGA	300
CDS:Armadillo repeat	46	L G A V P R L L Y L L Q Q E T S S T E L	
CDS:armadillo repeat	66	K T E C A V V L G S L A M G T E N N V K	
Query	339	AAGTGAATGTCAGTGGTGGGAAAGCTTGCTATGGTACTGAAAACAATGTCAGT	398
Sbjct	301	AAACTGAATGTCAGTGGTGGGAAAGCTTGCTATGGTACTGAAAACAATGTCAGT	360
CDS:Armadillo repeat	66	K T E C A V V L G S L A M G T E N N V K	
CDS:armadillo repeat	86	S R Y T Q R E Y I C Q I F S H C C K G P D	
Query	399	CTCTACTGGACTGCCATATATCCCTGCCTTATTGCAAGGACTACTGTCCCAGACTGA	458
Sbjct	361	CTCTACTGGACTGCCATATATCCCTGCCTTATTGCAAGGACTACTGTCCCAGACTGA	420
CDS:Armadillo repeat	86	S R Y T Q R E Y I C Q I F S H C C K G P D	
CDS:armadillo repeat	106	K F I E A C L R C L R T I F T S P V T P	
Query	459	AGTTTATTGAAGCTTGCCTCCGATGCCCTGCGTACCATCTTACCAGTCTGTCACTCCAG	518
Sbjct	421	AGTTTATTGAAGCTTGCCTCCGATGCCCTGCGTACCATCTTACCAGTCTGTCACTCCAG	480
CDS:Armadillo repeat	106	K F I E A C L R C L R T I F T S P V T P	
CDS:armadillo repeat	126	E E L L Y T D A T V I P H L M A L L S R	
Query	519	AGGAGCTACTGTATACAGATGCCACAGTATACCACACCTCATGGCACTGCTTAGCAGGT	578
Sbjct	481	AGGAGCTACTGTATACAGATGCCACAGTATACCACACCTCATGGCACTGCTTAGCAGGT	540
CDS:Armadillo repeat	126	E E L L Y T D A T V I P H L M A L L S R	
CDS:armadillo repeat	146	S R Y T Q R E Y I C Q I F S H C C K G P D	
Query	579	CCCAGTATACCCAGGAGTACATCTGTGAGTCTTCTCACACTGCTGTAAGGGCCAGATC	638
Sbjct	541	CCCAGTATACCCAGGAGTACATCTGTGAGTCTTCTCACACTGCTGTAAGGGCCAGATC	600
CDS:Armadillo repeat	146	S R Y T Q R E Y I C Q I F S H C C K G P D	
CDS:armadillo repeat	166	H Q T I L F N H G A V Q N I A H L L T S	
Query	639	ATCAAACAATTTTATTAACCACGGTGCAGTTCAGAATATTGCTCACCTACTAACCTCAC	698
Sbjct	601	ATCAAACAATTTTATTAACCACGGTGCAGTTCAGAATATTGCTCACCTACTAACCTCAC	660
CDS:Armadillo repeat	166	H Q T I L F N H G A V Q N I A H L L T S	
CDS:armadillo repeat	186	L S Y K V R M Q A L K C F S V L A F E N	
Query	699	TGCTCTACAAGTTCGAATGCAAGCACTGAAATGTTTCTCAGTTTAGCTTTGAAAACC	758
Sbjct	661	TGCTCTACAAGTTCGAATGCAAGCACTGAAATGTTTCTCAGTTTAGCTTTGAAAACC	720
CDS:Armadillo repeat	186	L S Y K V R M Q A L K C F S V L A F E N	
CDS:armadillo repeat	206	P Q V S M T L V N V L V D G E L L P Q I	
Query	759	CCCAGTATCGATGACCTGGTAAATGTTTGGTGTAGGAGAATTGTACCACAGATTT	818
Sbjct	721	CCCAGTATCGATGACCTGGTAAATGTTTGGTGTAGGAGAATTGTACCACAGATTT	780
CDS:Armadillo repeat	206	P Q V S M T L V N V L V D G E L L P Q I	
CDS:armadillo repeat	226	F V K M L Q R D K P I E M Q L T S A K C	
Query	819	TTGTGAAGATGTTACAGAGGGATAAGCCTATTGAGATGCAGCTCACATCAGCAAAATGTT	878
Sbjct	781	TTGTGAAGATGTTACAGAGGGATAAGCCTATTGAGATGCAGCTCACATCAGCAAAATGTT	840
CDS:Armadillo repeat	226	F V K M L Q R D K P I E M Q L T S A K C	
CDS:armadillo repeat	246	L T Y M C R A G A I R T D D N C I V L K	
Query	879	TAACCTACATGTTAGAGCTGGAGCAATTCGGACAGATGATAACTGTATTGTATTAAGA	938
Sbjct	841	TAACCTACATGTTAGAGCTGGAGCAATTCGGACAGATGATAACTGTATTGTATTAAGA	900
CDS:Armadillo repeat	246	L T Y M C R A G A I R T D D N C I V L K	
CDS:armadillo repeat	266	T L P C L V R M C S K E R L L E E R V E	
Query	939	CATTACCTGTTTGGTTCGAATGTGCAGTAAAGGAGATTACTAGAGGAGAGATTGAAG	998
Sbjct	901	CATTACCTGTTTGGTTCGAATGTGCAGTAAAGGAGATTACTAGAGGAGAGATTGAAG	960
CDS:Armadillo repeat	266	T L P C L V R M C S K E R L L E E R V E	
CDS:armadillo repeat	286	G A E T L A Y L I E P D V E L Q R I A S	
Query	999	GAGCTGAGACACTTGCTATCTGATTGAACAGATGTTGAGCTACAGAGAATCGTAGCA	1058
Sbjct	961	GAGCTGAGACACTTGCTATCTGATTGAACAGATGTTGAGCTACAGAGAATCGTAGCA	1020
CDS:Armadillo repeat	286	G A E T L A Y L I E P D V E L Q R I A S	
CDS:armadillo repeat	306	I T D H L I A M L A D Y F K Y P S S V S	
Query	1059	TAACCTACCTCATTGCCATGCTTGTGATTATTTCAAGTATCCAGCTCAGTGAGTG	1118
Sbjct	1021	TAACCTACCTCATTGCCATGCTTGTGATTATTTCAAGTATCCAGCTCAGTGAGTG	1080
CDS:Armadillo repeat	306	I T D H L I A M L A D Y F K Y P S S V S	
CDS:armadillo repeat	326	A I T D I K R L D H D L K H A H E L R Q	
Query	1119	CCATCACTGATATAAAAAGGCTTGCATGATTTAAAACATGCTCAGCAACTCCGCCAGG	1178
Sbjct	1081	CCATCACTGATATAAAAAGGCTTGCATGATTTAAAACATGCTCAGCAACTCCGCCAGG	1140
CDS:Armadillo repeat	326	A I T D I K R L D H D L K H A H E L R Q	
CDS:armadillo repeat	346	A A F K L Y A S L G A N D E D I R K K I	
Query	1179	CTGCATTCAAGCTCTATGCCTCTTGGAGCAATGATGAAGACATCCGGAAGAAGATCA	1238
Sbjct	1141	CTGCATTCAAGCTCTATGCCTCTTGGAGCAATGATGAAGACATCCGGAAGAAGATCA	1200
CDS:Armadillo repeat	346	A A F K L Y A S L G A N D E D I R K K I	
CDS:armadillo repeat	366	I E T E N M M D R I V T G L S E S S V K	
Query	1239	TTGAGACTGAAAAATATGATGGACCGAATTGACTGGCTTGTCTGAGTCTAGTGTCAAGG	1298
Sbjct	1201	TTGAGACTGAAAAATATGATGGACCGAATTGACTGGCTTGTCTGAGTCTAGTGTCAAGG	1260
CDS:Armadillo repeat	366	I E T E N M M D R I V T G L S E S S V K	
CDS:armadillo repeat	386	V R L A A V R C L H S L S R S V Q Q L R	
Query	1299	TGCGGTAGCTGCCGTGAGATTTGCACAGTTTATCCAGATCTGTGACGAGCTCGAA	1358
Sbjct	1261	TGCGGTAGCTGCCGTGAGATTTGCACAGTTTATCCAGATCTGTGACGAGCTCGAA	1320
CDS:Armadillo repeat	386	V R L A A V R C L H S L S R S V Q Q L R	
CDS:armadillo repeat	406	T S F Q D H A V W K P L M K V L Q N A P	
Query	1359	CCAGTTTCCAGGATCATGCTGTTGGAAACCTTTAATGAAGGTTTACAAAATGCACCAG	1418
Sbjct	1321	CCAGTTTCCAGGATCATGCTGTTGGAAACCTTTAATGAAGGTTTACAAAATGCACCAG	1380
CDS:Armadillo repeat	406	T S F Q D H A V W K P L M K V L Q N A P	

CDS:armadillo repeat 426 D E I L V V A S S M L C N L L L E F S P 1478
 Query 1419 ATGAAATCCTAGTGGTAGCATCTTCCATGCTGTGTAATCTTCTTGAATTTTCTCAA

Sbjct 1381 ATGAAATCCTAGTGGTAGCATCTTCCATGCTGTGTAATCTTCTTGAATTTTCTCAA 1440
 CDS:Armadillo repeat 426 D E I L V V A S S M L C N L L L E F S P

CDS:armadillo repeat 446 S K E P I L E S G A V E L L C G L T Q S 1538
 Query 1479 GCAAAGAGCCAAATTTGGAATCAGGAGCCGAGAGCTACTTTGTGGATTAACCTCAGAGTG

Sbjct 1441 GCAAAGAGCCAAATTTGGAATCAGGAGCCGAGAGCTACTTTGTGGATTAACCTCAGAGTG 1500
 CDS:Armadillo repeat 446 S K E P I L E S G A V E L L C G L T Q S

CDS:armadillo repeat 466 E N P A L R V N G I W A L M N M A F Q A 1598
 Query 1539 AACCTCGCTTTACGAGTGAATGGAATTTGGCTTAAATGAATGGCAATTCAGGCTG

Sbjct 1501 AAAATCCTGCTTTACGAGTGAATGGAATTTGGCTTAAATGAATGGCAATTCAGGCTG 1560
 CDS:Armadillo repeat 466 E N P A L R V N G I W A L M N M A F Q A

CDS:armadillo repeat 486 E Q K I K A D I L R S L S T E Q L F R L 1658
 Query 1599 AACAAAAATAAAGCAGATAATTTACGAAGCTTGAGTACTGAACAGCTATTCGGTTAT

Sbjct 1561 AACAAAAATAAAGCAGATAATTTACGAAGCTTGAGTACTGAACAGCTATTCGGTTAT 1620
 CDS:Armadillo repeat 486 E Q K I K A D I L R S L S T E Q L F R L

CDS:armadillo repeat 506 L S D S D L N V L M K T L G L L R N L L 1718
 Query 1659 TATCAGATTGAGATTTGAATGTGCTGATGAAGACATTTGGACTTCTAGAAATCTCCTCT

Sbjct 1621 TATCAGATTGAGATTTGAATGTGCTGATGAAGACATTTGGACTTCTAGAAATCTCCTCT 1680
 CDS:Armadillo repeat 506 L S D S D L N V L M K T L G L L R N L L

CDS:armadillo repeat 526 S T R P H I D K I M S T H G K Q I M Q A 1778
 Query 1719 CCACCTCGTCTCATATAGATAAAATAAGTACTCATGGAAAGCAAATATGCAAGCCG

Sbjct 1681 CCACCTCGTCTCATATAGATAAAATAAGTACTCATGGAAAGCAAATATGCAAGCCG 1740
 CDS:Armadillo repeat 526 S T R P H I D K I M S T H G K Q I M Q A

CDS:armadillo repeat 546 V T L I L E G E H N I E V K E Q T L C I 1838
 Query 1779 TCACCTTATTTCTAGAAGGGGAACATAACATTTGAGGTCAAAGCAGACACTGTGCATCT

Sbjct 1741 TCACCTTATTTCTAGAAGGGGAACATAACATTTGAGGTCAAAGCAGACACTGTGCATCT 1800
 CDS:Armadillo repeat 546 V T L I L E G E H N I E V K E Q T L C I

CDS:armadillo repeat 566 L A N I A D G T T A K D L I M T N D D I 1898
 Query 1839 TAGCAACATAGCGGATGGGCAACAGCAAAGATCTTATATGACCAATGATGATATCC

Sbjct 1801 TAGCAACATAGCGGATGGGCAACAGCAAAGATCTTATATGACCAATGATGATATCC 1860
 CDS:Armadillo repeat 566 L A N I A D G T T A K D L I M T N D D I

CDS:armadillo repeat 586 L Q K I K Y Y M G H S H V K L Q L A A M 1958
 Query 1899 TACAGAAATCAAGTATTACATGGGCCATTCACATGTTAACTGCAGCTGCAGCCATGT

Sbjct 1861 TACAGAAATCAAGTATTACATGGGCCATTCACATGTTAACTGCAGCTGCAGCCATGT 1920
 CDS:Armadillo repeat 586 L Q K I K Y Y M G H S H V K L Q L A A M

CDS:armadillo repeat 606 F C I S N L I W N E E E G S Q E R Q D K 2018
 Query 1959 TTTGTATATCAAACCTCATATGGAATGAAGAGGAAAGTTTACAAGAACCCAGGATAAAT

Sbjct 1921 TTTGTATATCAAACCTCATATGGAATGAAGAGGAAAGTTTACAAGAACCCAGGATAAAT 1980
 CDS:Armadillo repeat 606 F C I S N L I W N E E E G S Q E R Q D K

CDS:armadillo repeat 626 L R D M G I V D I L H K L S Q S P D S N 2078
 Query 2019 TACGAGACATGGGCATCGTAGATATCTACACAACTGAGTCAGTCACCAGATTCAAACC

Sbjct 1981 TACGAGACATGGGCATCGTAGATATCTACACAACTGAGTCAGTCACCAGATTCAAACC 2040
 CDS:Armadillo repeat 626 L R D M G I V D I L H K L S Q S P D S N

CDS:armadillo repeat 646 L C D K A K M A L Q Q Y L A 2138
 Query 2079 TTTGTGACAAAGCAAAGATGGCACGTCAGCAGTACCTGGCATGATGGGAGTGCCCTGGG

Sbjct 2041 TTTGTGACAAAGCAAAGATGGCACGTCAGCAGTACCTGGCATGATGGGAGTGCCCTGGG 2100
 CDS:Armadillo repeat 646 L C D K A K M A L Q Q Y L A

Query 2139 CACCTGCGAGCATCCACCTCCTGTTTAAAGGAAGTACAGGAACAGCCTCATTTGATTC 2198

Sbjct 2101 CACCTGCGAGCATCCACCTCCTGTTTAAAGGAAGTACAGGAACAGCCTCATTTGATTC 2160

Query 2199 CTTCTATTTGCACAAGTCACCTTGGACTGCAGGGAGCTGTTTGCAAAAGCAGTTTAGTA 2258

Sbjct 2161 CTTCTATTTGCACAAGTCACCTTGGACTGCAGGGAGCTGTTTGCAAAAGCAGTTTAGTA 2220

Query 2259 GGCTTAGATCTCAAATTCATCTTGAACAATTTTTGAGGTAGTAATTTCTCAGAAGA 2318

Sbjct 2221 GGCTTAGATCTCAAATTCATCTTGAACAATTTTTGAGGTAGTAATTTCTCAGAAGA 2280

Query 2319 CTTCTGTGTTTTGTTTTGTTTTTTTTCTGAGTACTCGGACTTTTATAGAACAATC 2378

Sbjct 2281 CTTCTGTGTTTTGTTTTGTTTTTTTTCTGAGTACTCGGACTTTTATAGAACAATC 2340

Query 2379 AATCATTTTCTTTGGACCTACAATTTTGCCTATGCTGCAGCCACTTTGTGAGTGAGAA 2438

Sbjct 2341 AATCATTTTCTTTGGACCTACAATTTTGCCTATGCTGCAGCCACTTTGTGAGTGAGAA 2400

Query 2439 TGAATATGCTGTGTGAACACACAGGCATGCGTGTATGTGCAGTACATGGCCAGAA 2498

Sbjct 2401 TGAATATGCTGTGTGAACACACAGGCATGCGTGTATGTGCAGTACATGGCCAGAA 2460

Query 2499 TGAATGGAatgtgtgtgtgtgAGGGATACCTCAGATTTTCTTTTCTTATTTGTGTGAAA 2558

Sbjct 2461 TGAATGGAatgtgtgtgtgtgAGGGATACCTCAGATTTTCTTTTCTTATTTGTGTGAAA 2520

Query 2559 ATCTCTTTTCTACAGATTTTCCAGGGTTAAGCATTGCTTGCTGTATAAAAACTTTACT 2618

Sbjct 2521 ATCTCTTTTCTACAGATTTTCCAGGGTTAAGCATTGCTTGCTGTATAAAAACTTTACT 2580

Query 2619 GAATTATATACAGTTTGAATGAAATGTTATTTAAAAACAAA 2661

Sbjct 2581 GAATTATATACAGTTTGAATGAAATGTTATTTAAAAACAAA 2623

