NRCD Human Full-Length cDNA Clone

Gene Engineering Division
RIKEN BioResource Research Center

RIKEN Clone ID : ARe77D06

Lot# : 7672_B6G9

Vector : pKA1U5

Gene	FLNB	
Accession No.	AB371580	8059 bp

● Plasmid DNA purification

Date : 2026/07/09 Culture : LB (100 ug/ml Ampicillin) 5 ml -> at 37 deg C O/N

Date : 2026/07/10 Purification : QIAGEN Miniprep kit -> dH_2O 100 ul

● Digestion by restriction enzyme/Concentrarion calibration

Date : 2026/07/10

DNA concentration (O.D.): 283 ng/ul

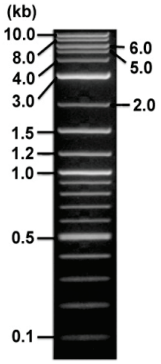
< Size of fragment expected from this clone >

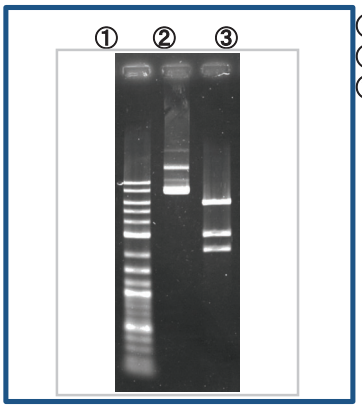
DNA	0.35 ul
Enzyme (BamHI)	1 ul
Buffer H	1 ul
dH_2O	7.65 ul
Total	10 ul

BamHI 3.1kb (vector), 5.9, 2.3 kb

Erectrophoresis : 1% agarose gel, 1x TAE Buffer

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





①:Marker
②:uncut
③:BamHI

● Confirmation of the sequence

Date : 2026/07/14

full sequence	ARe77D06hts01.seq

● Adjust plasmid DNA solution to 25 ng/ul

Date : 2026/07/16

DNA (283 ng/ul)	82 ul
10x TE	93 ul
dH_2O	753 ul
Total	928 ul

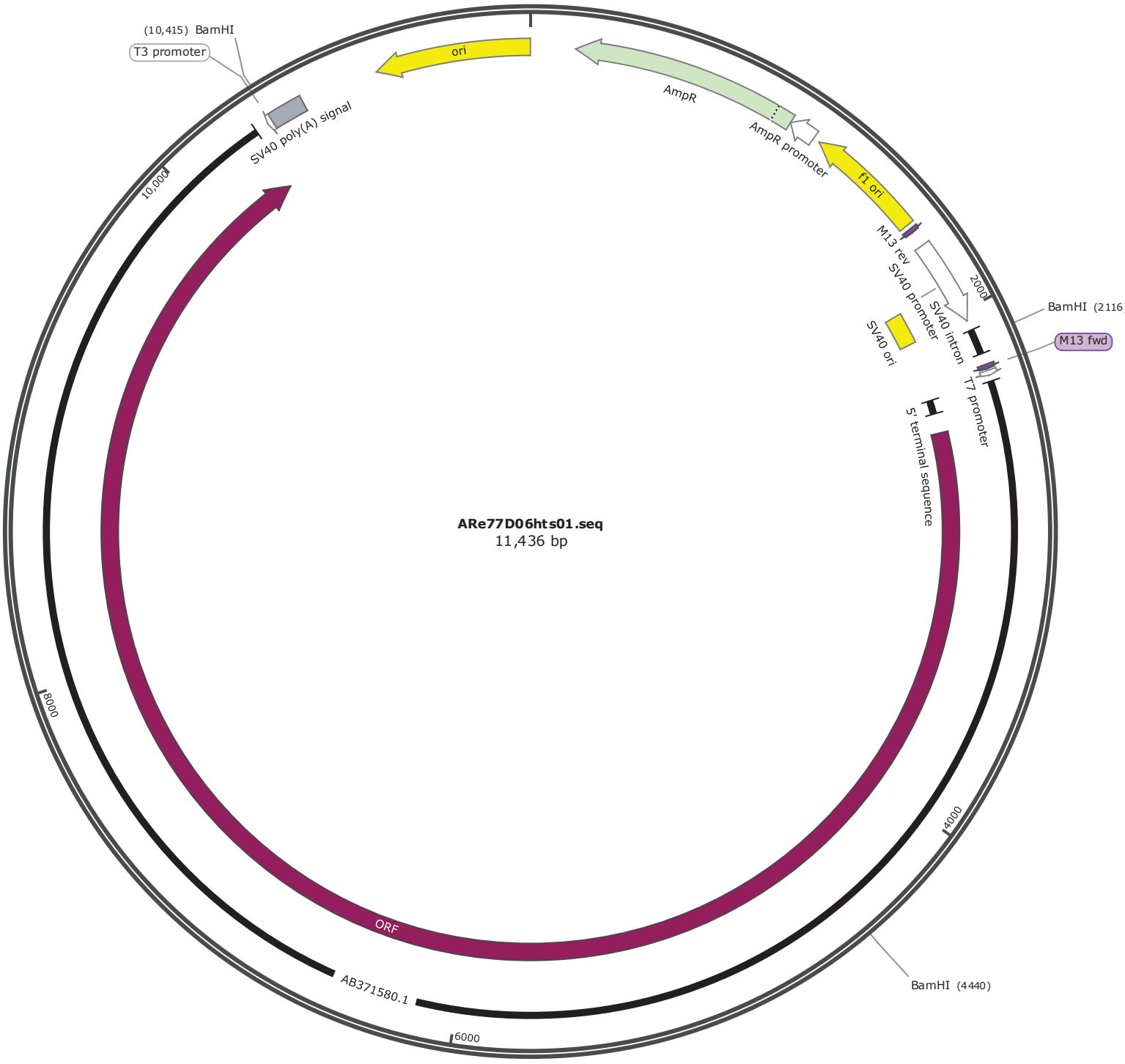
● Shipping

☑ Conc. : 25 ng/μl, Volume : 40 μl

☐ Conc. : ___ ng/μl, Volume : ___ μl

APPROVED BY : 検 '26.07.16 笹沼

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


(10,415) BamHI
T3 promoter
ori
AmpR
AmpR promoter
f1 ori
M13 rev
SV40 promoter
SV40 intron
2000
BamHI (2116)
M13 fwd
T7 promoter
5' terminal sequence
SV40 ori
SV40 poly(A) signal
10,000
8000
6000
4000
ORF
AB371580.1
BamHI (4440)
ARe77D06hts01.seq
11,436 bp

BLAST Results

Questions/comments

Blast 2 sequences

Job title: AB371580:Homo sapiens FLNB mRNA for filamin...

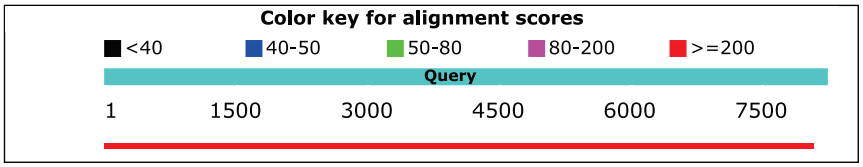
RID 5BP5SDZW114 (Expires on 07-15 14:35 pm)

Query ID	AB371580.1	**Subject ID**	lcl|Query_5259809
Description	Homo sapiens FLNB mRNA for filamin B, splicing variant, complete cds, clone: HP04958-ARe77D06	**Description**	None See details
Molecule type	nucleic acid	**Molecule type**	dna
Query Length	8059	**Subject Length**	11436
		Program	BLASTN 2.17.0+

Graphic Summary

ARe77D06hts01.seq

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	14883	14883	100%	0.0	100.00%	Query_5259809

Alignments

Sequence ID: Query_5259809 Length: 11436 Number of Matches: 1
Range 1: 2286 to 10344

Score	Expect	Identities	Gaps	Strand	Frame
14883 bits(8059)	0.0()	8059/8059(100%)	0/8059(0%)	Plus/Plus	

Features:

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Query   1     GCAGAGCAGCACCGGCCGTGGCTCCGGTAGCAGCAAGTTCGAACCCCGCTCCCGCTCCGC  60
Sbjct   2286  ............................................................  2345

Query   61    TTCGGTTCTCGCTCCTTCGGCCCTTGGGCCTCCAAACACCAGTCCCCGGCAGCTCGTTGC  120
Sbjct   2346  ............................................................  2405

CDS:filamin B [Homo   1                               M  P  V  T  E  K  D  L  A  E  D  A
Query   121   GCATTGCGCTCTCCCCGCCACCAGGATGCCGGTAACCGAGAAGGATCTAGCTGAGGACGC  180
Sbjct   2406  ............................................................  2465

CDS:filamin B [Homo   13      P  W  K  K  I  Q  Q  N  T  F  T  R  W  C  N  E  H  L  K  C
Query   181   GCCTTGGAAGAAGATCCAGCAGAACACGTTCACACGCTGGTGCAACGAGCACCTCAAGTG  240
Sbjct   2466  ............................................................  2525

CDS:filamin B [Homo   33      V  N  K  R  I  G  N  L  Q  T  D  L  S  D  G  L  R  L  I  A
Query   241   CGTGAACAAACGCATCGGCAACCTGCAGACCGACCTGAGCGACGGGCTGCGGCTCATCGC  300
Sbjct   2526  ............................................................  2585

CDS:filamin B [Homo   53      L  L  E  V  L  S  Q  K  R  M  Y  R  K  Y  H  Q  R  P  T  F
Query   301   GCTGCTCGAGGTGCTCAGCCAGAAGCGCATGTACCGCAAGTACCATCAGCGGCCCACCTT  360
Sbjct   2586  ............................................................  2645
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CDS:filamin B [Homo   73      R  Q  M  Q  L  E  N  V  S  V  A  L  E  F  L  D  R  E  S  I
Query                 361     TCGCCAGATGCAGCTCGAGAATGTGTCCGTGGCGCTCGAGTTCCTGGACCGTGAGAGCAT  420
Sbjct                 2646    ..........................................................  2705

CDS:filamin B [Homo   93      K  L  V  S  I  D  S  K  A  I  V  D  G  N  L  K  L  I  L  G
Query                 421     CAAGCTCGTGTCCATCGATAGCAAAGCCATTGTGGATGGGAACCTGAAGCTCATCTTGGG  480
Sbjct                 2706    ..........................................................  2765

CDS:filamin B [Homo   113     L  V  W  T  L  I  L  H  Y  S  I  S  M  P  V  W  E  D  E  G
Query                 481     TCTGGTGTGGACGCTGATCCTCCACTACTCCATCTCCATGCCCGTGTGGGAGGATGAAGG  540
Sbjct                 2766    ..........................................................  2825

CDS:filamin B [Homo   133     D  D  D  A  K  K  Q  T  P  K  Q  R  L  L  G  W  I  Q  N  K
Query                 541     GGATGATGATGCCAAGAAGCAGACGCCAAAGCAGAGGCTGCTGGGGTGGATTCAGAACAA  600
Sbjct                 2826    ..........................................................  2885

CDS:filamin B [Homo   153     I  P  Y  L  P  I  T  N  F  N  Q  N  W  Q  D  G  K  A  L  G
Query                 601     GATCCCCTACTTGCCCATCACCAACTTTAACCAGAACTGGCAAGACGGCAAAGCCCTGGG  660
Sbjct                 2886    ..........................................................  2945

CDS:filamin B [Homo   173     A  L  V  D  S  C  A  P  G  L  C  P  D  W  E  S  W  D  P  Q
Query                 661     AGCCCTGGTAGACAGCTGTGCTCCAGGTCTGTGCCCAGACTGGGAATCCTGGGACCCGCA  720
Sbjct                 2946    ..........................................................  3005

CDS:filamin B [Homo   193     K  P  V  D  N  A  R  E  A  M  Q  Q  A  D  D  W  L  G  V  P
Query                 721     GAAGCCTGTGGATAATGCACGAGAAGCCATGCAGCAGGCAGATGACTGGCTGGGTGTCCC  780
Sbjct                 3006    ..........................................................  3065

CDS:filamin B [Homo   213     Q  V  I  T  P  E  E  I  I  H  P  D  V  D  E  H  S  V  M  T
Query                 781     ACAGGTCATCACTCCTGAAGAAATCATTCACCCGGATGTGGACGAGCACTCAGTTATGAC  840
Sbjct                 3066    ..........................................................  3125

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Sbjct                 3126    ..........................................................  3185

CDS:filamin B [Homo   253     N  P  K  K  A  R  A  Y  G  R  G  I  E  P  T  G  N  M  V  K
Query                 901     CAACCCGAAGAAAGCCAGGGCCTATGGCAGAGGAATCGAGCCCACTGGAAACATGGTGAA  960
Sbjct                 3186    ..........................................................  3245

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Query                 961     GCAGCCAGCCAAGTTCACTGTGGACACCATCAGCGCCGGGCAAGGAGACGTGATGGTGTT  1020
Sbjct                 3246    ..........................................................  3305

CDS:filamin B [Homo   293     V  F  D  P  E  G  N  K  E  E  A  Q  V  T  P  D  S  D  K  N
Query                 1021    TGTTGAGGACCCAGAAGGGAACAAAGAGGAGGCACAAGTGACCCCTGACAGTGACAAGAA  1080
Sbjct                 3306    ..........................................................  3365

CDS:filamin B [Homo   313     K  T  Y  S  V  E  Y  L  P  K  V  T  G  L  H  K  V  T  V  L
Query                 1081    CAAGACATACTCTGTGGAGTATCTGCCCAAGGTCACCGGGCTACACAAAGTCACAGTCCT  1140
Sbjct                 3366    ..........................................................  3425

CDS:filamin B [Homo   333     F  A  G  Q  H  I  S  K  S  P  F  E  V  S  V  D  K  A  Q  G
Query                 1141    CTTTGCAGGACAGCACATCTCCAAGAGCCCATTTGAAGTGAGTGTTGACAAGGCCCAGGG  1200
Sbjct                 3426    ..........................................................  3485

CDS:filamin B [Homo   353     D  A  S  K  V  T  A  K  G  P  G  L  E  A  V  G  N  I  A  N
Query                 1201    AGATGCCAGTAAAGTCACTGCAAAAGGTCCAGGGTTGGAAGCTGTAGGGAACATCGCCAA  1260
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Sbjct                 3486    ..........................................................  3545

CDS:filamin B [Homo   373     K  P  T  Y  F  D  I  Y  T  A  G  A  G  V  G  D  I  G  V  E
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Sbjct                 3546    ..........................................................  3605

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Query                 1321    GGTGGAAGATCCCCAGGGGAAGAACACCGTGGAGTTGCTCGTGGAAGACAAAGGAAACCA  1380
Sbjct                 3606    ..........................................................  3665

CDS:filamin B [Homo   413     V  Y  R  C  V  Y  K  P  M  Q  P  G  P  H  V  V  K  I  F  F
Query                 1381    GGTGTATCGATGTGTGTACAAACCCATGCAGCCTGGCCCTCACGTGGTCAAGATCTTCTT  1440
Sbjct                 3666    ..........................................................  3725

CDS:filamin B [Homo   433     A  G  D  T  I  P  K  S  P  F  V  V  Q  V  G  E  A  C  N  P
Query                 1441    TGCTGGGGACACTATTCCTAAGAGTCCCTTCGTTGTGCAGGTTGGGGAAGCCTGCAATCC  1500
Sbjct                 3726    ..........................................................  3785

CDS:filamin B [Homo   453     N  A  C  R  A  S  G  R  G  L  Q  P  K  G  V  R  I  R  E  T
Query                 1501    AAATGCCTGCCGGGCCAGTGGCCGAGGCCTACAACCCAAAGGCGTCCGTATCCGGGAGAC  1560
Sbjct                 3786    ..........................................................  3845

CDS:filamin B [Homo   473     T  D  F  K  V  D  T  K  A  A  G  S  G  E  L  G  V  T  M  K
Query                 1561    CACAGATTTCAAGGTTGACACCAAAGCTGCAGGAAGTGGGGAGCTCGGTGTAACCATGAA  1620
Sbjct                 3846    ..........................................................  3905

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Query                 1621    GGGTCCTAAGGGTCTGGAGGAGCTGGTGAAGCAGAAAGACTTTCTGGATGGGGTCTACGC  1680
Sbjct                 3906    ..........................................................  3965

CDS:filamin B [Homo   513     F  E  Y  Y  P  S  T  P  G  R  Y  S  I  A  I  T  W  G  G  H
Query                 1681    ATTCGAGTATTACCCCAGCACCCCGGGGAGATACAGCATTGCCATCACATgggggggACA  1740
Sbjct                 3966    ..........................................................  4025

CDS:filamin B [Homo   533     H  I  P  K  S  P  F  E  V  Q  V  G  P  E  A  G  M  Q  K  V
Query                 1741    CCACATTCCAAAGAGCCCCTTTGAAGTTCAAGTTGGCCCTGAAGCGGGTATGCAGAAAGT  1800
Sbjct                 4026    ..........................................................  4085

CDS:filamin B [Homo   553     R  A  W  G  P  G  L  H  G  G  I  V  G  R  S  A  D  F  V  V
Query                 1801    CCGTGCTTGGGGCCCTGGGCTCCATGGTGGGATTGTCGGGCGGTCAGCGGACTTCGTGGT  1860
Sbjct                 4086    ..........................................................  4145

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Query                 1861    AGAATCCATTGGCTCTGAAGTGGGGTCTCTGGGGTTTGCCATTGAAGGCCCCTCTCAGGC  1920
Sbjct                 4146    ..........................................................  4205

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Query                 1921    AAAGATTGAGTACAACGACCAGAATGATGGATCGTGTGATGTCAAATACTGGCCCAAGGA  1980
Sbjct                 4206    ..........................................................  4265

CDS:filamin B [Homo   613     P  G  E  Y  A  V  H  I  M  C  D  D  E  D  I  K  D  S  P  Y
Query                 1981    GCCTGGCGAATATGCTGTTCACATCATGTGTGACGACGAAGACATCAAGGACAGCCCGTA  2040
Sbjct                 4266    ..........................................................  4325

CDS:filamin B [Homo   633     M  A  F  I  H  P  A  T  G  G  Y  N  P  D  L  V  R  A  Y  G
Query                 2041    CATGGCCTTCATCCACCCAGCCACGGGAGGCTACAACCCTGATCTGGTTCGAGCATACGG  2100
Sbjct                 4326    ..........................................................  4385

CDS:filamin B [Homo   653       P  G  L  E  K  S  G  C  I  V  N  N  L  A  E  F  T  V  D  P
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Query                2101   GCCAGGTTTGGAGAAATCTGGATGCATTGTCAACAACCTGGCCGAGTTCACTGTGGATCC   2160
Sbjct                4386   ............................................................   4445

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Query                2161   TAAGGATGCTGGAAAAGCTCCCTTAAAGATATTTGCTCAGGATGGGGAAGGCCAACGCAT   2220
Sbjct                4446   ............................................................   4505

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Query                2221   TGACATCCAGATGAAGAACCGGATGGACGGCACATATGCATGCTCATACACCCCGGTGAA   2280
Sbjct                4506   ............................................................   4565

CDS:filamin B [Homo   713     A  I  K  H  T  I  A  V  V  W  G  G  V  N  I  P  H  S  P  Y
Query                2281   GGCCATCAAGCACACCATTGCTGTGGTCTGGGGAGGCGTGAACATCCCGCACAGCCCCTA   2340
Sbjct                4566   ............................................................   4625

CDS:filamin B [Homo   733     R  V  N  I  G  Q  G  S  H  P  Q  K  V  K  V  F  G  P  G  V
Query                2341   CAGGGTCAACATCGGGCAAGGTAGCCATCCTCAGAAGGTCAAAGTGTTTGGGCCAGGTGT   2400
Sbjct                4626   ............................................................   4685

CDS:filamin B [Homo   753     E  R  S  G  L  K  A  N  E  P  T  H  F  T  V  D  C  T  E  A
Query                2401   GGAGAGAAGTGGTCTGAAGGCAAATGAACCTACACACTTCACGGTGGACTGTACTGAGGC   2460
Sbjct                4686   ............................................................   4745

CDS:filamin B [Homo   773     G  E  G  D  V  S  V  G  I  K  C  D  A  R  V  L  S  E  D  E
Query                2461   TGGGGAAGGTGATGTCAGTGTTGGCATTAAGTGTGATGCCCGGGTGTTAAGTGAAGATGA   2520
Sbjct                4746   ............................................................   4805

CDS:filamin B [Homo   793     E  D  V  D  F  D  I  I  H  N  A  N  D  T  F  T  V  K  Y  V
Query                2521   GGAAGACGTGGATTTTGACATTATTCACAATGCCAATGATACGTTCACAGTCAAATATGT   2580
Sbjct                4806   ............................................................   4865

CDS:filamin B [Homo   813     P  P  A  A  G  R  Y  T  I  K  V  L  F  A  S  Q  E  I  P  A
Query                2581   GCCTCCTGCTGCTGGGCGATACACTATCAAAGTTCTCTTTGCATCTCAGGAAATCCCCGC   2640
Sbjct                4866   ............................................................   4925

CDS:filamin B [Homo   833     S  P  F  R  V  K  V  D  P  S  H  D  A  S  K  V  K  A  E  G
Query                2641   CAGCCCTTTCAGAGTCAAAGTTGACCCTTCCCACGATGCCAGCAAAGTGAAGGCAGAAGG   2700
Sbjct                4926   ............................................................   4985

CDS:filamin B [Homo   853     P  G  L  S  K  A  G  V  E  N  G  K  P  T  H  F  T  V  Y  T
Query                2701   CCCAGGGCTCAGCAAAGCAGGTGTGGAAAATGGGAAACCGACCCACTTCACTGTCTACAC   2760
Sbjct                4986   ............................................................   5045

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Query                2761   CAAGGGGGCTGGGAAAGCCCCGCTCAACGTGCAGTTCAACAGCCCTCTTCCTGGCGATGC   2820
Sbjct                5046   ............................................................   5105

CDS:filamin B [Homo   893     V  K  D  L  D  I  I  D  N  Y  D  Y  S  H  T  V  K  Y  T  P
Query                2821   AGTGAAGGATTTGGATATCATCGATAATTATGACTACTCTCACACGGTTAAATATACACC   2880
Sbjct                5106   ............................................................   5165

CDS:filamin B [Homo   913     T  Q  Q  G  N  M  Q  V  L  V  T  Y  G  G  D  P  I  P  K  S
Query                2881   CACCCAACAGGGCAACATGCAGGTTCTGGTGACTTACGGTGGCGATCCCATCCCTAAAAG   2940
Sbjct                5166   ............................................................   5225

CDS:filamin B [Homo   933     P  F  T  V  G  V  A  A  P  L  D  L  S  K  I  K  L  N  G  L
Query                2941   CCCTTTCACTGTGGGTGTTGCTGCACCGCTGGATCTGAGCAAGATAAAACTCAATGGGCT   3000
Sbjct                5226   ............................................................   5285
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CDS:filamin B [Homo   953     E  N  R  V  E  V  G  K  D  Q  E  F  T  V  D  T  R  G  A  G
Query                3001   GGAAAACAGGGTGGAAGTTGGGAAGGATCAGGAGTTCACCGTTGATACCAGGGGGGCAGG   3060
Sbjct                5286   ............................................................   5345

CDS:filamin B [Homo   973     G  Q  G  K  L  D  V  T  I  L  S  P  S  R  K  V  V  P  C  L
Query                3061   AGGCCAGGGGAAGCTGGACGTGACAATCCTCAGCCCCTCTCGGAAGGTCGTGCCATGCCT   3120
Sbjct                5346   ............................................................   5405

CDS:filamin B [Homo   993     V  T  P  V  T  G  R  E  N  S  T  A  K  F  I  P  R  E  E  G
Query                3121   AGTGACACCTGTGACAGGCCGGGAGAACAGCACGGCCAAGTTCATCCCTCGGGAGGAGGG   3180
Sbjct                5406   ............................................................   5465

CDS:filamin B [Homo  1013     L  Y  A  V  D  V  T  Y  D  G  H  P  V  P  G  S  P  Y  T  V
Query                3181   GCTGTATGCTGTAGACGTGACCTACGATGGACACCCTGTGCCCGGGAGCCCCTACACAGT   3240
Sbjct                5466   ............................................................   5525

CDS:filamin B [Homo  1033     E  A  S  L  P  P  D  P  S  K  V  K  A  H  G  P  G  L  E  G
Query                3241   GGAGGCCTCGCTGCCACCAGATCCCAGCAAGGTGAAGGCCCACGGTCCCGGCCTCGAAGG   3300
Sbjct                5526   ............................................................   5585

CDS:filamin B [Homo  1053     G  L  V  G  K  P  A  E  F  T  I  D  T  K  G  A  G  T  G  G
Query                3301   TGGTCTCGTGGGCAAGCCTGCCGAGTTCACCATCGATACCAAAGGAGCTGGTACTGGAGG   3360
Sbjct                5586   ............................................................   5645

CDS:filamin B [Homo  1073     L  G  L  T  V  E  G  P  C  E  A  K  I  E  C  S  D  N  G  D
Query                3361   TCTGGGCTTAACGGTGGAAGGTCCGTGCGAGGCCAAAATCGAGTGCTCCGACAATGGTGA   3420
Sbjct                5646   ............................................................   5705

CDS:filamin B [Homo  1093     G  T  C  S  V  S  Y  L  P  T  K  P  G  E  Y  F  V  N  I  L
Query                3421   TGGGACCTGCTCCGTCTCTTACCTTCCCACAAAACCCGGGGAGTACTTCGTCAACATCCT   3480
Sbjct                5706   ............................................................   5765

CDS:filamin B [Homo  1113     F  E  E  V  H  I  P  G  S  P  F  K  A  D  I  E  M  P  F  D
Query                3481   CTTTGAAGAAGTCCACATACCTGGGTCTCCCTTCAAAGCTGACATTGAAATGCCCTTTGA   3540
Sbjct                5766   ............................................................   5825

CDS:filamin B [Homo  1133     P  S  K  V  V  A  S  G  P  G  L  E  H  G  K  V  G  E  A  G
Query                3541   CCCCTCTAAAGTCGTGGCATCGGGGCCAGGTCTCGAGCACGGGAAGGTGGGTGAAGCTGG   3600
Sbjct                5826   ............................................................   5885

CDS:filamin B [Homo  1153     L  L  S  V  D  C  S  E  A  G  P  G  A  L  G  L  E  A  V  S
Query                3601   CCTCCTTAGCGTCGACTGCTCGGAAGCGGGACCGGGGGCCCTGGGCCTGGAAGCTGTCTC   3660
Sbjct                5886   ............................................................   5945

CDS:filamin B [Homo  1173     D  S  G  T  K  A  E  V  S  I  Q  N  N  K  D  G  T  Y  A  V
Query                3661   GGACTCGGGAACAAAAGCCGAAGTCAGTATTCAGAACAACAAAGATGGCACCTACGCGGT   3720
Sbjct                5946   ............................................................   6005

CDS:filamin B [Homo  1193     T  Y  V  P  L  T  A  G  M  Y  T  L  T  M  K  Y  G  G  E  L
Query                3721   GACCTACGTGCCCCTGACGGCCGGCATGTACACGTTGACCATGAAGTATGGTGGCGAACT   3780
Sbjct                6006   ............................................................   6065

CDS:filamin B [Homo  1213     V  P  H  F  P  A  R  V  K  V  E  P  A  V  D  T  S  R  I  K
Query                3781   CGTGCCACACTTCCCCGCCCGGGTCAAGGTGGAGCCCGCCGTGGACACCAGCAGGATCAA   3840
Sbjct                6066   ............................................................   6125

CDS:filamin B [Homo  1233     V  F  G  P  G  I  E  G  K  D  V  F  R  E  A  T  T  D  F  T
Query                3841   AGTCTTTGGACCAGGAATAGAAGGGAAAGATGTGTTCCGGGAAGCTACCACCGACTTTAC   3900
Sbjct                6126   ............................................................   6185
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CDS:filamin B [Homo   1253    V  D  S  R  P  L  T  Q  V  G  G  D  H  I  K  A  H  I  A  N
Query                 3901    AGTTGACTCTCGGCCGCTGACCCAGGTTGGGGGTGACCACATCAAGGCCCACATTGCCAA  3960
Sbjct                 6186    ..............................................................  6245

CDS:filamin B [Homo   1273    P  S  G  A  S  T  E  C  F  V  T  D  N  A  D  G  T  Y  Q  V
Query                 3961    CCCCTCAGGGGCCTCCACCGAGTGCTTTGTCACAGACAATGCGGATGGGACCTACCAGGT  4020
Sbjct                 6246    ..............................................................  6305

CDS:filamin B [Homo   1293    E  Y  T  P  F  E  K  G  L  H  V  V  E  V  T  Y  D  D  V  P
Query                 4021    GGAATACACACCCTTTGAGAAAGGTCTCCATGTAGTGGAGGTGACATATGATGACGTGCC  4080
Sbjct                 6306    ..............................................................  6365

CDS:filamin B [Homo   1313    I  P  N  S  P  F  K  V  A  V  T  E  G  C  Q  P  S  R  V  Q
Query                 4081    TATCCCAAACAGTCCCTTCAAGGTGGCTGTCACTGAAGGCTGCCAGCCATCTAGGGTGCA  4140
Sbjct                 6366    ..............................................................  6425

CDS:filamin B [Homo   1333    A  Q  G  P  G  L  K  E  A  F  T  N  K  P  N  V  F  T  V  V
Query                 4141    AGCCCAAGGACCTGGATTGAAAGAGGCCTTTACCAACAAGCCCAATGTCTTCACCGTGGT  4200
Sbjct                 6426    ..............................................................  6485

CDS:filamin B [Homo   1353    T  R  G  A  G  I  G  G  L  G  I  T  V  E  G  P  S  E  S  K
Query                 4201    TACCAGAGGCGCAGGAATTGGTGGGCTTGGCATAACTGTTGAGGGACCATCAGAGTCGAA  4260
Sbjct                 6486    ..............................................................  6545

CDS:filamin B [Homo   1373    I  N  C  R  D  N  K  D  G  S  C  S  A  E  Y  I  P  F  A  P
Query                 4261    GATAAATTGCAGAGACAACAAGGATGGCAGCTGCAGTGCTGAGTACATTCCTTTCGCGCC  4320
Sbjct                 6546    ..............................................................  6605

CDS:filamin B [Homo   1393    G  D  Y  D  V  N  I  T  Y  G  G  A  H  I  P  G  S  P  F  R
Query                 4321    GGGGGATTACGATGTTAATATCACATATGGAGGAGCCCACATCCCCGGCAGCCCCTTCAG  4380
Sbjct                 6606    ..............................................................  6665

CDS:filamin B [Homo   1413    V  P  V  K  D  V  V  D  P  S  K  V  K  I  A  G  P  G  L  G
Query                 4381    GGTTCCTGTGAAGGATGTTGTGGACCCCAGCAAGGTCAAGATTGCCGGCCCCGGGCTGGG  4440
Sbjct                 6666    ..............................................................  6725

CDS:filamin B [Homo   1433    S  G  V  R  A  R  V  L  Q  S  F  T  V  D  S  S  K  A  G  L
Query                 4441    CTCAGGCGTCCGAGCCCGTGTCCTGCAGTCCTTCACGGTGGACAGCAGCAAGGCTGGCCT  4500
Sbjct                 6726    ..............................................................  6785

CDS:filamin B [Homo   1453    A  P  L  E  V  R  V  L  G  P  R  A  D  D  T  D  S  Q  S  W
Query                 4501    GGCTCCGCTGGAAGTGAGGGTTCTGGGCCCACGAGCTGACGACACGGATTCCCAGTCATG  4560
Sbjct                 6786    ..............................................................  6845

CDS:filamin B [Homo   1473    R  S  P  L  K  A  L  S  E  F  F  K  G  D  P  K  G  D  F  N
Query                 4561    GCGCAGCCCCTTGAAAGCCCTTTCAGAGTTCTTTAAAGGTGACCCGAAGGGTGACTTTAA  4620
Sbjct                 6846    ..............................................................  6905

CDS:filamin B [Homo   1493    K  T  G  L  V  E  P  V  N  V  V  D  N  G  D  G  T  H  T  V
Query                 4621    TAAGACAGGCTTGGTGGAGCCAGTGAACGTGGTGGACAATGGAGATGGCACACACACAGT  4680
Sbjct                 6906    ..............................................................  6965

CDS:filamin B [Homo   1513    T  Y  T  P  S  Q  E  G  P  Y  M  V  S  V  K  Y  A  D  E  E
Query                 4681    AACCTACACCCCATCTCAGGAGGGACCTTACATGGTCTCAGTTAAATATGCTGATGAAGA  4740
Sbjct                 6966    ..............................................................  7025

CDS:filamin B [Homo   1533    I  P  R  S  P  F  K  V  K  V  L  P  T  Y  D  A  S  K  V  T
Query                 4741    GATTCCTCGCAGTCCCTTCAAGGTCAAGGTCCTTCCCACATATGATGCCAGCAAAGTGAC  4800
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Sbjct                 7026    ..............................................................  7085

CDS:filamin B [Homo   1553    A  S  G  P  G  L  S  S  Y  G  V  P  A  S  L  P  V  D  F  A
Query                 4801    TGCCAGTGGCCCCGGCCTTAGTTCCTATGGTGTGCCTGCCAGTCTACCTGTGGACTTTGC  4860
Sbjct                 7086    ..............................................................  7145

CDS:filamin B [Homo   1573    I  D  A  R  D  A  G  E  G  L  L  A  V  Q  I  T  D  Q  E  G
Query                 4861    AATTGATGCCCGAGATGCCGGGGAAGGCCTGCTTGCTGTTCAAATAACGGACCAAGAAGG  4920
Sbjct                 7146    ..............................................................  7205

CDS:filamin B [Homo   1593    K  P  K  R  A  I  V  H  D  N  K  D  G  T  Y  A  V  T  Y  I
Query                 4921    AAAACCCAAAAGAGCCATTGTCCATGACAATAAAGATGGCACGTATGCTGTCACCTACAT  4980
Sbjct                 7206    ..............................................................  7265

CDS:filamin B [Homo   1613    P  D  K  T  G  R  Y  M  I  G  V  T  Y  G  G  D  D  I  P  L
Query                 4981    CCCCGACAAGACTGGGCGCTATATGATTGGAGTCACCTACGGGGGTGACGACATCCCACT  5040
Sbjct                 7266    ..............................................................  7325

CDS:filamin B [Homo   1633    S  P  Y  R  I  R  A  T  Q  T  G  D  A  S  K  C  L  A  T  G
Query                 5041    TTCTCCTTATCGCATCCGAGCCACACAGACGGGTGATGCCAGCAAGTGCCTGGCCACGGG  5100
Sbjct                 7326    ..............................................................  7385

CDS:filamin B [Homo   1653    P  G  I  A  S  T  V  K  T  G  E  E  V  G  F  V  V  D  A  K
Query                 5101    TCCTGGAATCGCCTCCACTGTGAAAACTGGCGAAGAAGTAGGCTTTGTGGTTGATGCCAA  5160
Sbjct                 7386    ..............................................................  7445

CDS:filamin B [Homo   1673    T  A  G  K  G  K  V  T  C  T  V  L  T  P  D  G  T  E  A  E
Query                 5161    GACTGCCGGGAAGGGTAAAGTGACCTGCACGGTTCTGACCCCAGATGGCACTGAGGCCGA  5220
Sbjct                 7446    ..............................................................  7505

CDS:filamin B [Homo   1693    A  D  V  I  E  N  E  D  G  T  Y  D  I  F  Y  T  A  A  K  P
Query                 5221    GGCCGATGTCATTGAGAATGAAGATGGAACCTATGACATCTTCTACACAGCTGCCAAGCC  5280
Sbjct                 7506    ..............................................................  7565

CDS:filamin B [Homo   1713    G  T  Y  V  I  Y  V  R  F  G  G  V  D  I  P  N  S  P  F  T
Query                 5281    GGGCACATATGTGATCTATGTGCGCTTCGGTGGTGTTGATATTCCTAACAGCCCCTTCAC  5340
Sbjct                 7566    ..............................................................  7625

CDS:filamin B [Homo   1733    V  M  A  T  D  G  E  V  T  A  V  E  E  A  P  V  N  A  C  P
Query                 5341    TGTCATGGCCACAGATGGGGAAGTCACAGCCGTGGAGGAGGCACCGGTAAATGCATGTCC  5400
Sbjct                 7626    ..............................................................  7685

CDS:filamin B [Homo   1753    P  G  F  R  P  W  V  T  E  E  A  Y  V  P  V  S  D  M  N  G
Query                 5401    CCCTGGATTCAGGCCCTGGGTGACCGAAGAGGCCTATGTCCCAGTGAGTGACATGAACGG  5460
Sbjct                 7686    ..............................................................  7745

CDS:filamin B [Homo   1773    L  G  F  K  P  F  D  L  V  I  P  F  A  V  R  K  G  E  I  T
Query                 5461    CCTGGGATTTAAGCCTTTTGACCTGGTCATTCCGTTTGCTGTCAGGAAAGGAGAAATCAC  5520
Sbjct                 7746    ..............................................................  7805

CDS:filamin B [Homo   1793    G  E  V  H  M  P  S  G  K  T  A  T  P  E  I  V  D  N  K  D
Query                 5521    TGGAGAGGTCCACATGCCTTCTGGGAAGACAGCCACACCTGAGATTGTGGACAACAAGGA  5580
Sbjct                 7806    ..............................................................  7865

CDS:filamin B [Homo   1813    G  T  V  T  V  R  Y  A  P  T  E  V  G  L  H  E  M  H  I  K
Query                 5581    CGGCACGGTCACTGTTAGATATGCCCCCACTGAGGTCGGGCTCCATGAGATGCACATCAA  5640
Sbjct                 7866    ..............................................................  7925

CDS:filamin B [Homo   1833    Y  M  G  S  H  I  P  E  S  P  L  Q  F  Y  V  N  Y  P  N  S
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Query                5641   ATACATGGGCAGCCACATCCCTGAGAGCCCACTCCAGTTCTACGTGAACTACCCCAACAG  5700
Sbjct                7926   ..............................................................  7985

CDS:filamin B [Homo  1853     G  S  V  S  A  Y  G  P  G  L  V  Y  G  V  A  N  K  T  A  T
Query                5701   TGGAAGTGTTTCTGCATACGGTCCAGGCCTCGTGTATGGAGTGGCCAACAAAACTGCCAC  5760
Sbjct                7986   ..............................................................  8045

CDS:filamin B [Homo  1873     F  T  I  V  T  E  D  A  G  E  G  G  L  D  L  A  I  E  G  P
Query                5761   CTTCACCATCGTCACAGAGGATGCAGGAGAAGGTGGTCTGGACTTGGCTATTGAGGGCCC  5820
Sbjct                8046   ..............................................................  8105

CDS:filamin B [Homo  1893     S  K  A  E  I  S  C  I  D  N  K  D  G  T  C  T  V  T  Y  L
Query                5821   CTCAAAAGCAGAAATCAGCTGCATTGACAATAAAGATGGGACATGCACAGTGACCTACCT  5880
Sbjct                8106   ..............................................................  8165

CDS:filamin B [Homo  1913     P  T  L  P  G  D  Y  S  I  L  V  K  Y  N  D  K  H  I  P  G
Query                5881   GCCGACTCTGCCAGGCGACTACAGCATTCTGGTCAAGTACAATGACAAGCACATCCCTGG  5940
Sbjct                8166   ..............................................................  8225

CDS:filamin B [Homo  1933     S  P  F  T  A  K  I  T  D  D  S  R  R  C  S  Q  V  K  L  G
Query                5941   CAGCCCCTTCACAGCCAAGATCACAGATGACAGCAGGCGGTGCTCCCAGGTGAAGTTGGG  6000
Sbjct                8226   ..............................................................  8285

CDS:filamin B [Homo  1953     S  A  A  D  F  L  L  D  I  S  E  T  D  L  S  S  L  T  A  S
Query                6001   CTCAGCCGCTGACTTCCTGCTCGACATCAGTGAGACTGACCTCAGCAGCCTGACGGCCAG  6060
Sbjct                8286   ..............................................................  8345

CDS:filamin B [Homo  1973     I  K  A  P  S  G  R  D  E  P  C  L  L  K  R  L  P  N  N  H
Query                6061   CATTAAGGCCCCATCTGGCCGAGACGAGCCCTGTCTCCTGAAGAGGCTGCCCAACAACCA  6120
Sbjct                8346   ..............................................................  8405

CDS:filamin B [Homo  1993     I  G  I  S  F  I  P  R  E  V  G  E  H  L  V  S  I  K  K  N
Query                6121   CATTGGCATCTCCTTCATCCCCCGGGAAGTGGGCGAACATCTGGTCAGCATCAAGAAAAA  6180
Sbjct                8406   ..............................................................  8465

CDS:filamin B [Homo  2013     G  N  H  V  A  N  S  P  V  S  I  M  V  V  Q  S  E  I  G  D
Query                6181   TGGCAACCATGTGGCCAACAGCCCCGTGTCTATCATGGTGGTCCAGTCGGAGATTGGTGA  6240
Sbjct                8466   ..............................................................  8525

CDS:filamin B [Homo  2033     A  R  R  A  K  V  Y  G  R  G  L  S  E  G  R  T  F  E  M  S
Query                6241   CGCCCGCCGAGCCAAAGTCTATGGCCGCGGCCTGTCAGAAGGCCGGACTTTCGAGATGTC  6300
Sbjct                8526   ..............................................................  8585

CDS:filamin B [Homo  2053     D  F  I  V  D  T  R  D  A  G  Y  G  G  I  S  L  A  V  E  G
Query                6301   TGACTTCATCGTGGACACAAGGGATGCAGGTTATGGTGGCATATCCTTGGCGGTGGAAGG  6360
Sbjct                8586   ..............................................................  8645

CDS:filamin B [Homo  2073     P  S  K  V  D  I  Q  T  E  D  L  E  D  G  T  C  K  V  S  Y
Query                6361   CCCCAGCAAAGTGGACATCCAGACGGAGGACCTGGAAGATGGCACCTGCAAAGTCTCCTA  6420
Sbjct                8646   ..............................................................  8705

CDS:filamin B [Homo  2093     F  P  T  V  P  G  V  Y  I  V  S  T  K  F  A  D  E  H  V  P
Query                6421   CTTCCCTACCGTGCCTGGGGTTTATATCGTCTCCACCAAATTCGCTGACGAGCACGTGCC  6480
Sbjct                8706   ..............................................................  8765

CDS:filamin B [Homo  2113     G  S  P  F  T  V  K  I  S  G  E  G  R  V  K  E  S  I  T  R
Query                6481   TGGGAGCCCATTTACCGTGAAGATCAGTGGGGAGGGAAGAGTCAAAGAGAGCATCACCCG  6540
Sbjct                8766   ..............................................................  8825
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CDS:filamin B [Homo  2133     T  S  R  A  P  S  V  A  T  V  G  S  I  C  D  L  N  L  K  I
Query                6541   CACCAGTCGGGCCCCGTCCGTGGCCACTGTCGGGAGCATTTGTGACCTGAACCTGAAAAT  6600
Sbjct                8826   ..............................................................  8885

CDS:filamin B [Homo  2153     P  E  I  N  S  S  D  M  S  A  H  V  T  S  P  S  G  R  V  T
Query                6601   CCCAGAAATCAACAGCAGTGATATGTCGGCCCACGTCACCAGCCCCTCTGGCCGTGTGAC  6660
Sbjct                8886   ..............................................................  8945

CDS:filamin B [Homo  2173     E  A  E  I  V  P  M  G  K  N  S  H  C  V  R  F  V  P  Q  E
Query                6661   TGAGGCAGAGATTGTGCCCATGGGGAAGAACTCACACTGCGTCCGGTTTGTGCCCCAGGA  6720
Sbjct                8946   ..............................................................  9005

CDS:filamin B [Homo  2193     M  G  V  H  T  V  S  V  K  Y  R  G  Q  H  V  T  G  S  P  F
Query                6721   GATGGGCGTGCACACGGTCAGCGTCAAGTACCGTGGGCAGCACGTCACCGGCAGCCCCTT  6780
Sbjct                9006   ..............................................................  9065

CDS:filamin B [Homo  2213     Q  F  T  V  G  P  L  G  E  G  G  A  H  K  V  R  A  G  G  P
Query                6781   CCAGTTCACCGTGGGGCCACTTGGTGAAGGAGGCGCCCACAAGGTGCGGGCAGGAGGCCC  6840
Sbjct                9066   ..............................................................  9125

CDS:filamin B [Homo  2233     G  L  E  R  G  E  A  G  V  P  A  E  F  S  I  W  T  R  E  A
Query                6841   TGGCCTGGAGAGAGGAGAAGCGGGAGTCCCAGCTGAGTTCAGCATTTGGACCCGGGAAGC  6900
Sbjct                9126   ..............................................................  9185

CDS:filamin B [Homo  2253     G  A  G  G  L  S  I  A  V  E  G  P  S  K  A  E  I  T  F  D
Query                6901   AGGCGCTGGAGGCCTCTCCATCGCTGTTGAGGGCCCCAGTAAGGCCGAGATTACATTCGA  6960
Sbjct                9186   ..............................................................  9245

CDS:filamin B [Homo  2273     D  H  K  N  G  S  C  G  V  S  Y  I  A  Q  E  P  G  N  Y  E
Query                6961   TGACCATAAAAATGGGTCGTGCGGTGTATCTTATATTGCCCAAGAGCCTGGTAACTACGA  7020
Sbjct                9246   ..............................................................  9305

CDS:filamin B [Homo  2293     V  S  I  K  F  N  D  E  H  I  P  E  S  P  Y  L  V  P  V  I
Query                7021   GGTGTCCATCAAGTTCAATGATGAGCACATCCCGGAAAGCCCCTACCTGGTGCCGGTCAT  7080
Sbjct                9306   ..............................................................  9365

CDS:filamin B [Homo  2313     A  P  S  D  D  A  R  R  L  T  V  M  S  L  Q  E  S  G  L  K
Query                7081   CGCACCCTCCGACGACGCCCGCCGCCTCACTGTTATGAGCCTTCAGGAATCGGGATTAAA  7140
Sbjct                9366   ..............................................................  9425

CDS:filamin B [Homo  2333     V  N  Q  P  A  S  F  A  I  R  L  N  G  A  K  G  K  I  D  A
Query                7141   AGTTAACCAGCCAGCATCCTTTGCTATAAGGTTGAATGGCGCAAAAGGCAAGATTGATGC  7200
Sbjct                9426   ..............................................................  9485

CDS:filamin B [Homo  2353     K  V  H  S  P  S  G  A  V  E  E  C  H  V  S  E  L  E  P  D
Query                7201   AAAGGTGCACAGCCCCCTCTGGAGCCGTGGAGGAGTGCCACGTGTCTGAGCTGGAGCCAGA  7260
Sbjct                9486   ..............................................................  9545

CDS:filamin B [Homo  2373     K  Y  A  V  R  F  I  P  H  E  N  G  V  H  T  I  D  V  K  F
Query                7261   TAAGTATGCTGTTCGCTTCATCCCTCATGAGAATGGTGTCCACACCATCGATGTCAAGTT  7320
Sbjct                9546   ..............................................................  9605

CDS:filamin B [Homo  2393     N  G  S  H  V  V  G  S  P  F  K  V  R  V  G  E  P  G  Q  A
Query                7321   CAATGGGAGCCACGTGGTTGGAAGCCCCTTCAAAGTGCGCGTTGGGGAGCCTGGACAAGC  7380
Sbjct                9606   ..............................................................  9665

CDS:filamin B [Homo  2413     G  N  P  A  L  V  S  A  Y  G  T  G  L  E  G  G  T  T  G  I
Query                7381   GGGGAACCCTGCCCTGGTGTCCGCCTATGGCACGGGACTCGAAGGGGGCACCACAGGTAT  7440
Sbjct                9666   ..............................................................  9725
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Query                 7441    CCAGTCGGAATTCTTTATTAACACCACCCGAGCAGGTCCAGGGACATTATCCGTCACCAT  7500
Sbjct                 9726    ............................................................  9785

CDS:filamin B [Homo   2453    E  G  P  S  K  V  K  M  D  C  Q  E  T  P  E  G  Y  K  V  M
Query                 7501    CGAAGGCCCATCCAAGGTTAAAATGGATTGCCAGGAAACACCTGAAGGGTACAAAGTCAT  7560
Sbjct                 9786    ............................................................  9845

CDS:filamin B [Homo   2473    Y  T  P  M  A  P  G  N  Y  L  I  S  V  K  Y  G  G  P  N  H
Query                 7561    GTACACCCCCATGGCTCCTGGTAACTACCTGATCAGCGTCAAATACGGTGGGCCCAACCA  7620
Sbjct                 9846    ............................................................  9905

CDS:filamin B [Homo   2493    I  V  G  S  P  F  K  A  K  V  T  G  Q  R  L  V  S  P  G  S
Query                 7621    CATCGTGGGCAGTCCCTTCAAGGCCAAGGTGACAGGCCAGCGTCTAGTTAGCCCTGGCTC  7680
Sbjct                 9906    ............................................................  9965

CDS:filamin B [Homo   2513    A  N  E  T  S  S  I  L  V  E  S  V  T  R  S  S  T  E  T  C
Query                 7681    AGCCAACGAGACCTCATCCATCCTGGTGGAGTCAGTGACCAGGTCGTCTACAGAGACCTG  7740
Sbjct                 9966    ............................................................  10025

CDS:filamin B [Homo   2533    Y  S  A  I  P  K  A  S  S  D  A  S  K  V  T  S  K  G  A  G
Query                 7741    CTATAGCGCCATTCCCAAGGCATCCTCGGACGCCAGCAAGGTGACCTCTAAGGGGGCAGG  7800
Sbjct                 10026   ............................................................  10085

CDS:filamin B [Homo   2553    L  S  K  A  F  V  G  Q  K  S  S  F  L  V  D  C  S  K  A  G
Query                 7801    GCTCTCAAAGGCCTTTGTGGGCCAGAAGAGTTCCTTCCTGGTGGACTGCAGCAAAGCTGG  7860
Sbjct                 10086   ............................................................  10145

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Query                 7861    CTCCAACATGCTGCTGATCGGGGTCCATGGGCCCACCACCCCCTGCGAGGAGGTCTCCAT  7920
Sbjct                 10146   ............................................................  10205

CDS:filamin B [Homo   2593    K  H  V  G  N  Q  Q  Y  N  V  T  Y  V  V  K  E  R  G  D  Y
Query                 7921    GAAGCATGTAGGCAACCAGCAATACAACGTCACATACGTCGTCAAGGAGAGGGGCGATTA  7980
Sbjct                 10206   ............................................................  10265

CDS:filamin B [Homo   2613    V  L  A  V  K  W  G  E  E  H  I  P  G  S  P  F  H  V  T  V
Query                 7981    TGTGCTGGCTGTGAAGTGGGGGGAGGAACACATCCCTGGCAGCCCTTTTCATGTCACAGT  8040
Sbjct                 10266   ............................................................  10325

CDS:filamin B [Homo   2633    P
Query                 8041    GCCTTAAAACAGTTTTCTC  8059
Sbjct                 10326   ...................  10344
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