NRCD Human Full-Length cDNA Clone

Gene Engineering Division
RIKEN BioResource Research Center

RIKEN Clone ID : RBd82E05

Lot# : 7677_B2Cs

Vector : pGCAP10

Gene	FANCI	
RefSeq_mRNA	NM_018193.3	4681 bp

● Plasmid DNA purification

Date : 22.03.28 Culture : LB (100 ug/ml Ampicillin) 5 ml -> at 37 deg C O/N

Date : 22.03.30 Purification : QIAGEN Miniprep kit -> dH_2O 100 ul

● Digestion by restriction enzyme/Concentrarion calibration

Date : 22.03.30

DNA concentration (O.D.): 372 ng/ul

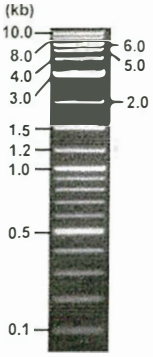
< Size of fragment expected from this clone >

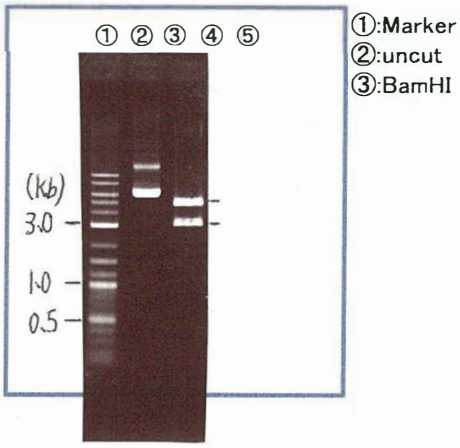
BamHI 3.1kb (vector), 4.9 kb

DNA	0.3 ul
Enzyme (BamHI)	1 ul
Buffer H	1 ul
dH_2O	7.7 ul
Total	10 ul

Erectrophoresis : 1% agarose gel, 1x TAE Buffer

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





● Confirmation of the sequence

Date : 22.05.30

full sequence	RBd82E05hts01.seq

● Adjust plasmid DNA solution to 25 ng/ul

Date : 22.06.08

DNA (372 ng/ul)	75.0	ul
10x TE	111.6	ul
dH_2O	929.4	ul
Total	1116.0	ul

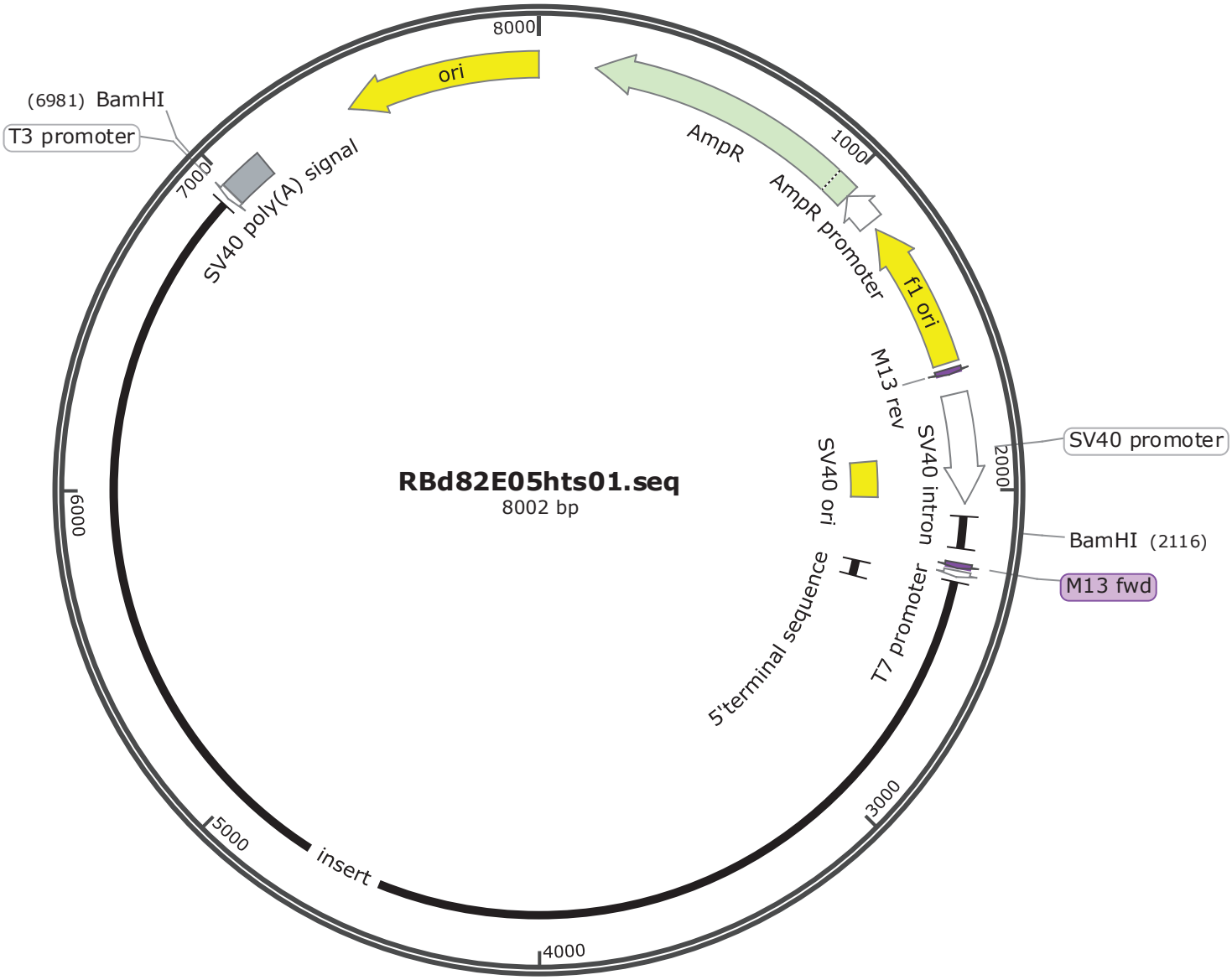
● Shipping

☑ Conc. : 25 ng/μl, Volume : 40 μl

☐ [redacted]

APPROVED BY :




8000
ori
(6981) BamHI
T3 promoter
7000
SV40 poly(A) signal
AmpR
AmpR promoter
1000
f1 ori
M13 rev
SV40 promoter
2000
SV40 intron
BamHI (2116)
M13 fwd
SV40 ori
5'terminal sequence
T7 promoter
3000
6000
RBd82E05hts01.seq
8002 bp
5000
insert
4000

BLAST Results

Questions/comments

Blast 2 sequences

Job title: NM_001376911:Homo sapiens FA complementation...

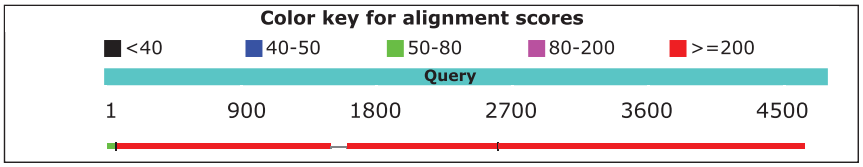
RID ZH8HM66N114 (Expires on 04-12 13:01 pm)

Query ID	NM_018193.3	**Subject ID**	lcl|Query_1220507
Description	Homo sapiens FA complementation group I (FANCI), transcript variant 2, mRNA	**Description**	None See details
Molecule type	nucleic acid	**Molecule type**	dna
Query Length	4681	**Subject Length**	8002
		Program	BLASTN 2.16.1+

RBd82E05hts01.seq

Graphic Summary

Distribution of the top 4 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	3727	8137	95%	0.0	99.90%	Query_1220507

Alignments

Sequence ID: Query_1220507 Length: 8002 Number of Matches: 4
Range 1: 4889 to 6912

Score	Expect	Identities	Gaps	Strand	Frame
3727 bits(2018)	0.0()	2022/2024(99%)	0/2024(0%)	Plus/Plus	

Features:

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CDS:Fanconi anemia g  819   R  V  L  L  W  R  Y  T  S  I  P  T  S  V  E  E  S  G  K  K
Query                2530  GAGTCTTGCTATGGAGATACACTTCAATTCCTACTTCAGTGGAAGAGTCGGGAAAGAAAG  2589
Sbjct                4889  ............................................................  4948

CDS:Fanconi anemia g  839   E  K  G  K  S  I  S  L  L  C  L  E  G  L  Q  K  I  F  S  A
Query                2590  AGAAAGGAAAGAGCATCTCACTGCTGTGCTTGGAGGGTTTACAGAAAATATTCAGTGCTG  2649
Sbjct                4949  ............................................................  5008

CDS:Fanconi anemia g  859   V  Q  Q  F  Y  Q  P  K  I  Q  Q  F  L  R  A  L  D  V  T  D
Query                2650  TGCAACAGTTCTATCAGCCCAAGATTCAGCAGTTTCTCAGAGCTCTGGATGTCACAGATA  2709
Sbjct                5009  ............................................................  5068

CDS:Fanconi anemia g  879   K  E  G  E  E  R  E  D  A  D  V  S  V  T  Q  R  T  A  F  Q
Query                2710  AGGAAGGAGAAGAGAGAGAAGATGCAGATGTCAGTGTCACTCAGAGAACAGCATTCCAGA  2769
Sbjct                5069  ............................................................  5128

CDS:Fanconi anemia g  899   I  R  Q  F  Q  R  S  L  L  N  L  L  S  S  Q  E  E  D  F  N
Query                2770  TCCGGCAATTTCAGAGGTCCTTGTTGAATTTACTTAGCAGTCAAGAGGAAGATTTTAATA  2829
Sbjct                5129  ............................................................  5188

CDS:Fanconi anemia g  919   S  K  E  A  L  L  L  V  T  V  L  T  S  L  S  K  L  L  E  P
Query                2830  GCAAAGAAGCCCTCCTGCTAGTCACGGTTCTTACCAGTTTGTCCAAGTTACTGGAGCCCT  2889
Sbjct                5189  ............................................................  5248
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CDS:Fanconi anemia g  939   S  S  P  Q  F  V  Q  M  L  S  W  T  S  K  I  C  K  E  N  S
Query                2890  CCTCTCCTCAGTTTGTGCAGATGTTATCCTGGACATCAAAGATTTGCAAGGAAAACAGCC  2949
Sbjct                5249  ............................................................  5308

CDS:Fanconi anemia g  959   R  E  D  A  L  F  C  K  S  L  M  N  L  L  F  S  L  H  V  S
Query                2950  GGGAGGATGCCTTGTTTTGCAAGAGCTTGATGAACTTGCTCTTCAGCCTGCATGTTTCGT  3009
Sbjct                5309  ............................................................  5368

CDS:Fanconi anemia g  979   Y  K  S  P  V  I  L  L  R  D  L  S  Q  D  I  H  G  H  L  G
Query                3010  ATAAGAGTCCTGTCATTCTGCTGCGTGACTTGTCCCAGGATATCCACGGGCATCTGGGAG  3069
Sbjct                5369  ............................................................  5428

CDS:Fanconi anemia g  999   D  I  D  Q  D  V  E  V  E  K  T  N  H  F  A  I  V  N  L  R
Query                3070  ATATAGACCAGGATGTAGAGGTGGAGAAAACAAACCACTTTGCAATAGTGAATTTGAGAA  3129
Sbjct                5429  ............................................................  5488

CDS:Fanconi anemia g  1019  T  A  A  P  T  V  C  L  L  V  L  S  Q  A  E  K  V  L  E  E
Query                3130  CGGCTGCCCCCACTGTCTGTTTACTTGTTCTGAGTCAGGCCGAGAAGGTTCTAGAAGAAG  3189
Sbjct                5489  ............................................................  5548

CDS:Fanconi anemia g  1039  V  D  W  L  I  T  K  L  K  G  Q  V  S  Q  E  T  L  S  E  E
Query                3190  TGGACTGGCTAATCACCAAGCTTAAGGGACAAGTGAGCCAAGAAACCTTATCAGAAGAGG  3249
Sbjct                5549  ............................................................  5608

CDS:Fanconi anemia g  1059  A  S  S  Q  A  T  L  P  N  Q  P  V  E  K  A  I  I  M  Q  L
Query                3250  CCTCTTCTCAGGCAACCCTACCAAATCAGCCTGTTGAGAAAGCTATCATCATGCAACTGG  3309
Sbjct                5609  ............................................................  5668

CDS:Fanconi anemia g  1079  G  T  L  L  T  F  F  H  E  L  V  Q  T  A  L  P  S  G  S  C
Query                3310  GAACTCTGCTTACATTTTTCCACGAGCTGGTGCAGACAGCTCTGCCATCAGGCAGCTGTG  3369
Sbjct                5669  ............................................................  5728

CDS:Fanconi anemia g  1099  V  D  T  L  L  K  D  L  C  K  M  Y  T  T  L  T  A  L  V  R
Query                3370  TGGACACCTTGTTAAAGGACTTGTGCAAAATGTACACCACACTTACAGCCCTTGTCAGAT  3429
Sbjct                5729  ............................................................  5788

CDS:Fanconi anemia g  1119  Y  Y  L  Q  V  C  Q  S  S  G  G  I  P  K  N  M  E  K  L  V
Query                3430  ATTATCTCCAGGTGTGTCAGAGCTCCGGAGGAATTCCAAAAAATATGGAAAAGCTGGTGA  3489
Sbjct                5789  ............................................................  5848

CDS:Fanconi anemia g  1139  K  L  S  G  S  H  L  T  P  L  C  Y  S  F  I  S  Y  V  Q  N
Query                3490  AGCTGTCTGGTTCTCATCTGACCCCCCTGTGTTATTCTTTCATTTCTTACGTACAGAATA  3549
Sbjct                5849  ............................................................  5908

CDS:Fanconi anemia g  1159  K  S  K  S  L  N  Y  T  G  E  K  K  E  K  P  A  A  V  A  T
Query                3550  AGAGTAAGAGCCTGAACTATACGGGAGAGAAAAAGGAGAAACCTGCTGCCGTTGCCACAG  3609
Sbjct                5909  ............................................................  5968

CDS:Fanconi anemia g  1179  A  M  A  R  V  L  R  E  T  K  P  I  P  N  L  I  F  A  I  E
Query                3610  CCATGGCCAGAGTTCTTCGGGAAACCAAGCCAATCCCTAACCTCATCTTTGCCATAGAAC  3669
Sbjct                5969  ............................................................  6028

CDS:Fanconi anemia g  1199  Q  Y  E  K  F  L  I  H  L  S  K  K  S  K  V  N  L  M  Q  H
Query                3670  AGTATGAAAAATTTCTCATCCACCTTTCTAAGAAGTCCAAGGTGAACCTGATGCAGCACA  3729
Sbjct                6029  ............................................................  6088

CDS:Fanconi anemia g  1219  M  K  L  S  T  S  R  D  F  K  I  K  G  N  I  L  D  M  V  L
Query                3730  TGAAGCTCAGCACCTCACGAGACTTCAAGATCAAAGGAAACATCCTAGACATGGTTCTTC  3789
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Sbjct                6089  ............................................................  6148

CDS:Fanconi anemia g  1239  R  E  D  G  E  D  E  N  E  E  G  T  A  S  E  H  G  Q  N
Query                3790  GAGAGGATGGTGAAGATGAAAATGAAGAGGGCACTGCATCAGAGCATGGGGGACAGAACA  3849
Sbjct                6149  ..........C.................................................  6208

CDS:Fanconi anemia g  1259  K  E  P  A  K  K  K  R  K  K
Query                3850  AAGAACCAGCCAAGAAGAAAAGGAAAAAATAAATGAAATGCCTGAGTTAATGTGAACTTT  3909
Sbjct                6209  ............................................................  6268

Query                3910  GGGGCTTCTGCTTCATTTTTACCCAACAAGCAACAATGCCCCTTGTCCTGTAGTCCACAC  3969
Sbjct                6269  ............................................................  6328

Query                3970  CGATGTTGGCATCTTGGTTCTGAACCCACTGAATTCAACTGCACCTTCAGTTAGAAGGAA  4029
Sbjct                6329  ............................................................  6388

Query                4030  TCTTCTTGGCAGGTCCTGCTACTGAAAAATGGCTGGCCTTAGGCAAGCCCTTTTGCAAAA  4089
Sbjct                6389  ............................................................  6448

Query                4090  AGCACAGCTGAAAGCCTGAGTTTGGGAGCCTGCACCACCCCGATGAAGCTCCACGGGAGC  4149
Sbjct                6449  ............................................................  6508

Query                4150  AAATACAGAGCCTCCAGGCAGTGCTATGGTCCAGGCTGGCTTCGTTTTTCCAAGGAGCCT  4209
Sbjct                6509  ............................................................  6568

Query                4210  TTGGTGAGTTCAATTATCTGGTAAATATCCAGCGCTTCACCTGAAAGATAGTGCAAATTG  4269
Sbjct                6569  ............................................................  6628

Query                4270  GTTAGGATGCCACCTCAAGAACTGTAACTGAGAGCTCAGAAGTGAGCAAAGGAGCTTAAT  4329
Sbjct                6629  ............................................................  6688

Query                4330  GCTAAGGTCAAAAGGAGAGTGAAAGGTTGAGAACAATTGCCACGAACGGTAATGTTACAT  4389
Sbjct                6689  ............................................................  6748

Query                4390  GTTAGGAGGGTCTGTTTTCTTTTTATATAAGTGTGTCTTAGATATATTTTAAATAGAAAA  4449
Sbjct                6749  ............................................................  6808

Query                4450  TAAGCTTTCTGATTTACTTGTTTGGTATTTAAAGCACAGTTTGTTTTTCTGTCACCTATA  4509
Sbjct                6809  ............................................................  6868

Query                4510  GAGTGCAAGAATGCACTCTATAGAATAAATTATCTTTAAACATT  4553
Sbjct                6869  ..............................C.............  6912
```

Range 2: 2339 to 3738

Score	Expect	Identities	Gaps	Strand	Frame
2556 bits(1384)	0.0()	1399/1405(99%)	5/1405(0%)	Plus/Plus	

Features:

```
CDS:Fanconi anemia g  1                           M  D  Q  K  I  L  S  L  A  A  E  K  T
Query                53    GAGTTCTGTGATATGAGCAACAATGGACCAGAAGATTTTATCTCTAGCAGCAGAAAAAAC  112
Sbjct                2339  ............................................................  2398

CDS:Fanconi anemia g  14     A  D  K  L  Q  E  F  L  Q  T  L  R  E  G  D  L  T  N  L  L
Query                113   AGCAGACAAACTGCAAGAATTTCTTCAAACCCTGAGAGAAGGTGATTTGACTAATCTCCT  172
Sbjct                2399  ..........................................-----.............  2453
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CDS:Fanconi anemia g  34     Q  N  Q  A  V  K  G  K  V  A  G  A  L  L  R  A  I  F  K  G
Query                 173    TCAGAATCAAGCAGTGAAAGGAAAAGTTGCTGGAGCACTCCTGAGAGCCATCTTCAAAGG  232
Sbjct                 2454   ............................................................  2513

CDS:Fanconi anemia g  54     S  P  C  S  E  E  A  G  T  L  R  R  R  K  I  Y  T  C  C  I
Query                 233    TTCCCCCTGCTCTGAGGAAGCTGGAACACTTAGGAGACGTAAGATATACACTTGTTGTAT  292
Sbjct                 2514   ............................................................  2573

CDS:Fanconi anemia g  74     Q  L  V  E  S  G  D  L  Q  K  E  I  A  S  E  I  I  G  L  L
Query                 293    CCAGTTGGTGGAATCGGGGGATTTGCAGAAAGAAATAGCGTCTGAGATCATAGGATTACT  352
Sbjct                 2574   ............................T...............................  2633

CDS:Fanconi anemia g  94     M  L  E  A  H  H  F  P  G  P  L  L  V  E  L  A  N  E  F  I
Query                 353    GATGCTGGAGGCTCACCATTTTCCAGGACCATTATTGGTTGAATTAGCCAATGAGTTTAT  412
Sbjct                 2634   ............................................................  2693

CDS:Fanconi anemia g  114    S  A  V  R  E  G  S  L  V  N  G  K  S  L  E  L  L  P  I  I
Query                 413    TAGTGCTGTCAGAGAAGGCAGCCTAGTGAATGGAAAATCTTTGGAGTTACTACCTATCAT  472
Sbjct                 2694   ............................................................  2753

CDS:Fanconi anemia g  134    L  T  A  L  A  T  K  K  E  N  L  A  Y  G  K  G  V  L  S  G
Query                 473    TCTCACTGCCCTGGCTACGAAAAAGGAAAATCTGGCTTATGGAAAAGGTGTACTGAGTGG  532
Sbjct                 2754   ............................................................  2813

CDS:Fanconi anemia g  154    E  E  C  K  K  Q  L  I  N  T  L  C  S  G  R  W  D  Q  Q  Y
Query                 533    GGAAGAATGTAAGAAACAGTTGATTAACACCCTGTGTTCTGGCAGGTGGGATCAGCAATA  592
Sbjct                 2814   ............................................................  2873

CDS:Fanconi anemia g  174    V  I  Q  L  T  S  M  F  K  D  V  P  L  T  A  E  E  V  E  F
Query                 593    TGTAATCCAACTCACCTCCATGTTCAAGGATGTCCCTCTGACTGCAGAAGAGGTGGAATT  652
Sbjct                 2874   ............................................................  2933

CDS:Fanconi anemia g  194    V  V  E  K  A  L  S  M  F  S  K  M  N  L  Q  E  I  P  P  L
Query                 653    TGTGGTGGAAAAAGCATTGAGCATGTTCTCCAAGATGAATCTTCAAGAAATACCACCTTT  712
Sbjct                 2934   ............................................................  2993

CDS:Fanconi anemia g  214    V  Y  Q  L  L  V  L  S  S  K  G  S  R  K  S  V  L  E  G  I
Query                 713    GGTCTATCAGCTTCTGGTTCTCTCCTCCAAGGGAAGCAGAAAGAGTGTTTTGGAAGGAAT  772
Sbjct                 2994   ............................................................  3053

CDS:Fanconi anemia g  234    I  A  F  F  S  A  L  D  K  Q  H  N  E  E  Q  S  G  D  E  L
Query                 773    CATAGCCTTCTTCAGTGCACTAGATAAGCAGCACAATGAGGAACAGAGTGGTGACGAGCT  832
Sbjct                 3054   ............................................................  3113

CDS:Fanconi anemia g  254    L  D  V  V  T  V  P  S  G  E  L  R  H  V  E  G  T  I  I  L
Query                 833    ATTGGATGTTGTCACTGTGCCATCAGGTGAACTTCGTCATGTGGAAGGCACCATTATTCT  892
Sbjct                 3114   ............................................................  3173

CDS:Fanconi anemia g  274    H  I  V  F  A  I  K  L  D  Y  E  L  G  R  E  L  V  K  H  L
Query                 893    ACACATTGTGTTTGCCATCAAATTGGACTATGAACTAGGCAGAGAACTCGTGAAACACTT  952
Sbjct                 3174   ............................................................  3233

CDS:Fanconi anemia g  294    K  V  G  Q  Q  G  D  S  N  N  N  L  S  P  F  S  I  A  L  L
Query                 953    AAAGGTAGGACAGCAAGGAGATTCCAATAATAACTTAAGTCCCTTCAGCATTGCTCTTCT  1012
Sbjct                 3234   ............................................................  3293

CDS:Fanconi anemia g  314    L  S  V  T  R  I  Q  R  F  Q  D  Q  V  L  D  L  L  K  T  S
Query                 1013   TCTGTCTGTAACAAGAATACAAAGATTTCAGGACCAGGTGCTTGATCTTTTAAAGACTTC  1072
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Sbjct                 3294   ............................................................  3353

CDS:Fanconi anemia g  334    V  V  K  S  F  K  D  L  Q  L  L  Q  G  S  K  F  L  Q  N  L
Query                 1073   GGTTGTAAAGAGCTTTAAGGATCTTCAACTCCTCCAAGGCTCAAAATTTCTTCAGAATCT  1132
Sbjct                 3354   ............................................................  3413

CDS:Fanconi anemia g  354    V  P  H  R  S  Y  V  S  T  M  I  L  E  V  V  K  N  S  V  H
Query                 1133   AGTTCCTCATAGATCTTATGTTTCAACCATGATCTTGGAAGTAGTGAAGAATAGCGTTCA  1192
Sbjct                 3414   ............................................................  3473

CDS:Fanconi anemia g  374    S  W  D  H  V  T  Q  G  L  V  E  L  G  F  I  L  M  D  S  Y
Query                 1193   TAGCTGGGACCATGTTACTCAGGGCCTCGTAGAACTTGGTTTCATTTTGATGGATTCATA  1252
Sbjct                 3474   ............................................................  3533

CDS:Fanconi anemia g  394    G  P  K  K  V  L  D  G  K  T  I  E  T  S  P  S  L  S  R  M
Query                 1253   TGGGCCAAAGAAGGTTCTTGATGGAAAAACTATTGAAACCAGCCCAAGTCTTTCTAGAAT  1312
Sbjct                 3534   ............................................................  3593

CDS:Fanconi anemia g  414    P  N  Q  H  A  C  K  L  G  A  N  I  L  L  E  T  F  K  I  H
Query                 1313   GCCAAACCAGCATGCATGTAAGCTCGGAGCTAATATCCTGTTGGAAACTTTTAAGATCCA  1372
Sbjct                 3594   ............................................................  3653

CDS:Fanconi anemia g  434    E  M  I  R  Q  E  I  L  E  Q  V  L  N  R  V  V  T  R  A  S
Query                 1373   TGAGATGATCAGACAAGAAATTTTGGAGCAGGTCCTCAACAGGGTTGTTACCAGAGCATC  1432
Sbjct                 3654   ............................................................  3713

CDS:Fanconi anemia g  454    S  P  I  S  H  F  L  D
Query                 1433   TTCTCCCATCAGTCATTTCTTAGAC  1457
Sbjct                 3714   .........................  3738
```

Range 3: 3732 to 4710

Score	Expect	Identities	Gaps	Strand	Frame
1797 bits(973)	0.0()	978/980(99%)	1/980(0%)	Plus/Plus	

Features:

```
CDS:Fanconi anemia g  493    L  Q  T  V  Q  R  L  L  K  A  V  Q  P  L  L  K  V  S  M  S
Query                 1551   CTTCAGACTGTACAAAGGCTGCTTAAGGCAGTGCAGCCCCTTCTCAAAGTCAGCATGTCA  1610
Sbjct                 3732   ...-........................................................  3790

CDS:Fanconi anemia g  513    M  R  D  C  L  I  L  V  L  R  K  A  M  F  A  N  Q  L  D  A
Query                 1611   ATGAGAGACTGCTTGATACTTGTCCTTCGGAAAGCTATGTTTGCCAACCAGCTTGATGCC  1670
Sbjct                 3791   ............................................................  3850

CDS:Fanconi anemia g  533    R  K  S  A  V  A  G  F  L  L  L  L  K  N  F  K  V  L  G  S
Query                 1671   CGAAAATCTGCAGTTGCTGGGTTTTTGCTGCTCCTGAAGAACTTTAAAGTTTTAGGCAGC  1730
Sbjct                 3851   ............................................................  3910

CDS:Fanconi anemia g  553    L  S  S  S  Q  C  S  Q  S  L  S  V  S  Q  V  H  V  D  V  H
Query                 1731   CTGTCATCCTCTCAGTGCAGTCAGTCTCTCAGTGTCAGTCAGGTTCATGTGGATGTTCAC  1790
Sbjct                 3911   ............................................................  3970

CDS:Fanconi anemia g  573    S  H  Y  N  S  V  A  N  E  T  F  C  L  E  I  M  D  S  L  R
Query                 1791   AGCCATTACAATTCTGTCGCCAATGAAACTTTTTGCCTTGAGATCATGGATAGTTTGAGG  1850
Sbjct                 3971   ............................................................  4030
```

```
CDS:Fanconi anemia g  593   R  C  L  S  Q  Q  A  D  V  R  L  M  L  Y  E  G  F  Y  D  V
Query                1851  AGATGCTTAAGCCAGCAAGCTGATGTTCGACTCATGCTTTATGAGGGGTTTTATGATGTT  1910
Sbjct                4031  ............................................................  4090

CDS:Fanconi anemia g  613   L  R  R  N  S  Q  L  A  N  S  V  M  Q  T  L  L  S  Q  L  K
Query                1911  CTTCGAAGGAACTCTCAGCTGGCTAATTCAGTCATGCAAACTCTGCTCTCACAGTTAAAA  1970
Sbjct                4091  ............................................................  4150

CDS:Fanconi anemia g  633   Q  F  Y  E  P  K  P  D  L  L  P  P  L  K  L  E  A  C  I  L
Query                1971  CAGTTCTATGAGCCAAAACCTGATCTGCTGCCTCCTCTGAAATTAGAAGCTTGTATTCTG  2030
Sbjct                4151  ............................................................  4210

CDS:Fanconi anemia g  653   T  Q  G  D  K  I  S  L  Q  E  P  L  D  Y  L  L  C  C  I  Q
Query                2031  ACCCAAGGAGATAAGATCTCTCTACAAGAACCACTGGATTATCTGCTGTGTTGTATTCAG  2090
Sbjct                4211  ............................................................  4270

CDS:Fanconi anemia g  673   H  C  L  A  W  Y  K  N  T  V  I  P  L  Q  Q  G  E  E  E  E
Query                2091  CATTGTTTGGCCTGGTATAAGAATACAGTCATACCCTTACAGCagggagaggaggaagag  2150
Sbjct                4271  ............................................................  4330

CDS:Fanconi anemia g  693   E  E  E  E  A  F  Y  E  D  L  D  D  I  L  E  S  I  T  N  R
Query                2151  gaggaggaagaggCATTCTACGAAGACCTAGATGATATATTGGAGTCCATTACTAATAGA  2210
Sbjct                4331  ............................................................  4390

CDS:Fanconi anemia g  713   M  I  K  S  E  L  E  D  F  E  L  D  K  S  A  D  F  S  Q  S
Query                2211  ATGATTAAGAGTGAGCTGGAAGACTTTGAACTGGATAAATCAGCAGATTTTTCTCAGAGC  2270
Sbjct                4391  ............................................................  4450

CDS:Fanconi anemia g  733   T  S  I  G  I  K  N  N  I  C  A  F  L  V  M  G  V  C  E  V
Query                2271  ACCAGTATTGGCATAAAAAATAATATCTGTGCTTTTCTTGTGATGGGAGTTTGTGAGGTT  2330
Sbjct                4451  ...........................C................................  4510

CDS:Fanconi anemia g  753   L  I  E  Y  N  F  S  I  S  S  F  S  K  N  R  F  E  D  I  L
Query                2331  TTAATAGAATACAATTTCTCCATAAGTAGTTTCAGTAAGAATAGGTTTGAGGACATTCTG  2390
Sbjct                4511  ............................................................  4570

CDS:Fanconi anemia g  773   S  L  F  M  C  Y  K  K  L  S  D  I  L  N  E  K  A  G  K  A
Query                2391  AGCTTATTTATGTGTTACAAAAAACTCTCTGACATTCTTAATGAAAAAGCGGGTAAAGCC  2450
Sbjct                4571  ............................................................  4630

CDS:Fanconi anemia g  793   K  T  K  M  A  N  K  T  S  D  S  L  L  S  M  K  F  V  S  S
Query                2451  AAAACTAAAATGGCCAACAAGACAAGTGATAGTCTTTTGTCCATGAAATTTGTGTCCAGT  2510
Sbjct                4631  ............................................................  4690

CDS:Fanconi anemia g  813   L  L  T  A  L  F  R
Query                2511  CTTCTCACTGCTCTTTTCAG  2530
Sbjct                4691  ....................  4710
```

Range 4: 2276 to 2307

Score	Expect	Identities	Gaps	Strand	Frame
54.7 bits(29)	1e-09()	31/32(97%)	0/32(0%)	Plus/Plus	

Features:

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Query  24    TTGAGCGGGCTTTTTGGAAGTTTGTGGCGGAG  55
Sbjct  2276  ..T.............................  2307
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