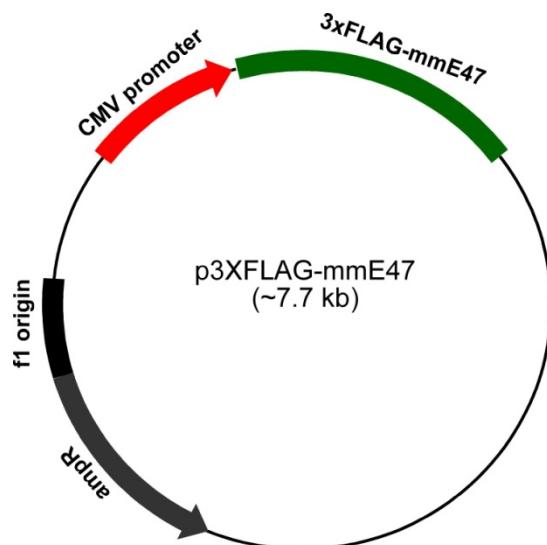


pCMV-3XFlag-mmE47

Gene/insert: mmE47
Insert size: ~2 kb
Species: mouse
Fusion protein or tag: 3x Flag
Terminal: N-terminal on backbone
Vector backbone: p3xFlag-CMV
Backbone manufacture: Sigma
Vector type: Mammalian expression
Backbone size: 4.7 K
Cloning 5': EcoRI
Site destroyed during cloning: No
Cloning 3': BamHI
Site destroyed during cloning: No
5' sequence primer: CMV-forward, E47 fwd 884 and 1600 primer



** Sequenced with CMV FWD primer and E47 FWD 884 and 1600 primers

Sequence File : pFlag-E47-CMV-Forward.seq

```
>pFlag-E47-CMV-Forward_c08.ab1
CNNNNNNNNNNNNNTAGCAGAGCTCGTTAGTGAACCGTCAGAATTAAACCATGGACTACAAAGACCATGACGGTGATTAT
AAAGATCATGACATCGATTACAAGGATGACGATGACAAGCTTGCGGCCGCAATTCAATGATGAACCAGTCTCAGAGAAAT
GGCACCCGTGGGCTCTGACAAGGAACCTGAGTGACCTCTGGACTTCAGCATGATGTTCCCGTACCTGTGGCCAATGGGA
AGAGCCGGCCGCCTCCCTCGGGGAACCCAGTTGCAGGCTCAGGACTGGAGGACCGACCCAGCTCAGGCTCCTGGGGC
AGCAGTGACCAAGAACAGTTCTTCTTGACCCCTAGCCGGACATACAGCGAAGGTGCCACTTCAGTGACTCCCACAGCAG
CCTGCCGCCCTTCCAGCTTCTAGGAGCTGGCTTGGAGGCAAGGGCAGTGAGCGGAATGCCATGCCACCTTGGGAGAG
ACACCACTGTTGGCACCTTGAGTCAGGCTGGCTTCTGCCAGGTGAGCTGAGCCTCAGCAGTCCCAGGCACTGTCCCCA
TCGGGCATCAAGAGCAGCTCCAGTATTACCCCTATTCCCCAGCAACCCCTGTCGGAGAGCTGAGATGGTGGCCTGG
TACTCAGCCGAAGAAAGTCCGGAAGGTTCCGCCCTGGTCTCCCTTCCCTGGTGTATCCGCCAGCTCAGGTGACAGCTACA
GCAGGGATGCTGCAGCCTACCCCTCCGCCAAGACCCCAGCAGCGCTTACCCCTCCCCCTTACGTGGCAGATGGCAGC
CTGCACCCATCAGCTGAGCTGGAGTACGCCAGGTGGCTTGGGCCATGCTAGGTGACGGCTTTCCCT
GCCCTTGACCGGGCAGCAGCTCCGTGGCAGNGGTACCTTGGGGCTCCAGCAGCAGNATCGCATGGCTACCAGC
TGCATGGNTCTGAGNTAATGNTCGCTCCAGCTGTATCCAGCTTTCCGGCTGCCCTGNACTTACAGNGGACTTCCGGCN
NNNGCCCCCTGNNGANNGGGCCGAGCTGAAAGCNCCTAGGCACCCGAGNNNTACAGCCNGCAGCNCNTNNGGNANN
```

> [ref|NM_011548.4|](#) Mus musculus transcription factor 3 (Tcf3), transcript variant 8, mRNA
Length=3305

[GENE ID: 21423 Tcf3](#) | transcription factor 3 [Mus musculus]
(Over 100 PubMed links)

Score = 1622 bits (878), Expect = 0.0
 Identities = 895/906 (98%), Gaps = 4/906 (0%)
 Strand=Plus/Plus

Query	138	ATGATGAACCAGTCTCAGAGAATGGCACCCGTGGCTCTGACAAGGAACGTGAGTGACCTC	197
Sbjct	392	ATGATGAACCAGTCTCAGAGAATGGCACCCGTGGCTCTGACAAGGAACGTGAGTGACCTC	451
Query	198	CTGGACTTCAGCATGATGTTCCCGTACCTGTGCCAATGGAAAGAGCCGGCCCCGCTCC	257
Sbjct	452	CTGGACTTCAGCATGATGTTCCCGTACCTGTGCCAATGGAAAGAGCCGGCCCCGCTCC	511
Query	258	CTCGGGGGAACCCAGTTGCAGGCTCAGGACTGGAGGACCGACCCAGCTCAGGCTCTGG	317
Sbjct	512	CTCGGGGGAACCCAGTTGCAGGCTCAGGACTGGAGGACCGACCCAGCTCAGGCTCTGG	571
Query	318	GGCAGCAGTGACCAGAACAGTTCTCCTTGACCCTAGCCGGACATACAGCGAAGGTGCC	377
Sbjct	572	GGCAGCAGTGACCAGAACAGTTCTCCTTGACCCTAGCCGGACATACAGCGAAGGTGCC	631
Query	378	CACTTCAGTGACTCCCACAGCAGCCTGCCCTTCCACGTTCTAGGAGCTGGGCTTGG	437
Sbjct	632	CACTTCAGTGACTCCCACAGCAGCCTGCCCTTCCACGTTCTAGGAGCTGGGCTTGG	691
Query	438	GGCAAGGGCAGTGAGCGGAATGCCTATGCCACCTTGGAGAGACACCAAGTGGCACC	497
Sbjct	692	GGCAAGGGCAGTGAGCGGAATGCCTATGCCACCTTGGAGAGACACCAAGTGGCACC	751
Query	498	TTGAGTCAGGCTGGCTTCCTGCCAGGTGAGCTGAGCCTCAGCAGTCCCAGGCCACTGTCC	557
Sbjct	752	TTGAGTCAGGCTGGCTTCCTGCCAGGTGAGCTGAGCCTCAGCAGTCCCAGGCCACTGTCC	811
Query	558	CCATCGGGCATCAAGAGCAGCTCCAGTATTACCCCTCATTCCCCAGCAACCCCTCGTCGG	617
Sbjct	812	CCATCGGGCATCAAGAGCAGCTCCAGTATTACCCCTCATTCCCCAGCAACCCCTCGTCGG	871
Query	618	AGAGCTGCAGATGGTGGCTGGATACTCAGCCGAAGAAGGTCCGAAGGTTCCGCTGGT	677
Sbjct	872	AGAGCTGCAGATGGTGGCTGGATACTCAGCCGAAGAAGGTCCGAAGGTTCCGCTGGT	931
Query	678	CTCCCTTCCTCGGTGTATCCGCCAGCTCAGGTGACAGCTACAGCAGGGATGCTGCAGCC	737
Sbjct	932	CTCCCTTCCTCGGTGTATCCGCCAGCTCAGGTGACAGCTACAGCAGGGATGCTGCAGCC	991
Query	738	TACCCCTCCGCCAAGACCCCCAGCAGCGCTTACCCCTCCCCCTCTACGTGGCAGATGGC	797
Sbjct	992	TACCCCTCCGCCAAGACCCCCAGCAGCGCTTACCCCTCCCCCTCTACGTGGCAGATGGC	1051
Query	798	AGCCTGCACCCATCAGCTGAGCTGGAGTACGCCAGGTGGCTTGGGCCATG	857
Sbjct	1052	AGCCTGCACCCATCAGCTGAGCTGGAGTACGCCAGGTGGCTTGGGCCATG	1111
Query	858	CTAGGTGACGGCTTCCCTCTGCCCTTGACCGGGCAGCAGCTCCGTGGCAGNGGT	917
Sbjct	1112	CTAGGTGACGGCTTCCCTCTGCCCTTGACCGGGCAGCAGCTCCGTGGCAGTGGT	1171
Query	918	ACCTTGCCCCCTCCAGCAGCAGNATCGCATGGCTACCAGCTGCATGGNTCTGAGNT-	976
Sbjct	1172	ACCTTGCCCCCTCCAGCAGCAGGATCGCATGGCTACCAGCTGCATGGATCTGAGGTT	1231
Query	977	AATGN-TCGCTCCCAGCTGTATCCAGCTTTCGGCTGCC-TGN-ACTTACAGNGGGACT	1033
Sbjct	1232	AATGGCTCGCTCCCAGCTGTATCCAGCTTTCGGCTGCCCTGGCACTACAGTGGGACT	1291
Query	1034	TCCGGC 1039	
Sbjct	1292	TCCGGC 1297	

Sequence File : E47-884.seq

[ref|NM_011548.4|](#) **G** *Mus musculus transcription factor 3 (Tcf3)*, transcript variant 8, mRNA
Length=3305

[GENE ID: 21423 Tcf3](#) | transcription factor 3 [Mus musculus]
(Over 100 PubMed links)

Score = 1363 bits (738), Expect = 0.0
Identities = 762/783 (97%), Gaps = 2/783 (0%)
Strand=Plus/Plus

Query	15	ATCCNGCTTTGGCTG-CCNTGGCACTTACAGTGGGACTTCCGGCACAGCCCCCTGT 	73
Sbjct	1252	ATCCAGCTTTGGCTGCCCTGGCACTTACAGTGGGACTTCCGGCACAGCCCCCTGT 	1311
Query	74	GAGTGGGGCCGCAGCTGAAAGCCTCTAGGCACCCGAGGGACTACAGCCAGCAGCTCAGG 	133
Sbjct	1312	GAGTGGGGCCGCAGCTGAAAGCCTCTAGGCACCCGAGGGACTACAGCCAGCAGCTCAGG 	1371
Query	134	GGATGCCCTTGGGAAGGCACTGGCCTCGATCTACTCCCCGGATCACTCCAGCAATAATT 	193
Sbjct	1372	GGATGCCCTTGGGAAGGCACTGGCCTCGATCTACTCCCCGGATCACTCCAGCAATAATT 	1431
Query	194	CTCACCTAGCCCCCTCAACGCCGTGGGTTACCCCCAGGGCCTGCCAGGGACATCACAGTG 	253
Sbjct	1432	CTCACCTAGCCCCCTCAACGCCGTGGGTTACCCCCAGGGCCTGCCAGGGACATCACAGTG 	1491
Query	254	GCCCCGGGCAGGAGGCCAGTGCCTTATCCCCAACTACGATGCAGGTCTCCATGGCT 	313
Sbjct	1492	GCCCCGGGCAGGAGGCCAGTGCCTTATCCCCAACTACGATGCAGGTCTCCATGGCT 	1551
Query	314	GAGCAAGATGGAGGGACCCTGGACGAGGGCATCCATGTCCTGCGAACGCCACGCTTGG 	373
Sbjct	1552	GAGCAAGATGGAGGGACCCTGGACGAGGGCATCCATGTCCTGCGAACGCCACGCTTGG 	1611
Query	374	CACCGCTAGCGATCTCCATGGGCTTTGCCATGGCCATGGCGCACTGACCACGAGCTTCAC 	433
Sbjct	1612	CACCGCTAGCGATCTCCATGGGCTTTGCCATGGCCATGGCGCACTGACCACGAGCTTCAC 	1671
Query	434	CGGGCCCATGTCACTGGCGGGCGCATGCCGCTGGCGGGAAAGCCATCCTGAGGA 	493
Sbjct	1672	CGGGCCCATGTCACTGGCGGGCGCATGCCGCTGGCGGGAAAGCCATCCTGAGGA 	1731
Query	494	GGGCCTACAAGTGGGCCAGTCTTGCATAACCATGCCAGCCTCCCCAGCCAGCCCCAG 	553
Sbjct	1732	GGGCCTACAAGTGGGCCAGTCTTGCATAACCATGCCAGCCTCCCCAGCCAGCCCCAG 	1791

Query	554	TTCCCTCCCTGACCTCTCACAGAGACCTCCGACTCCTATAGTGGACTCGGGAGGGCAGG 	613
Sbjct	1792	TTCCCTCCCTGACCTCTCACAGAGACCTCCGACTCCTATAGTGGACTCGGGAGGGCAGG 	1851
Query	614	CACAAACAGCGGGTGCCAGCGAGATCAAGCGGGAGGAGAAAGAGGATGAGGAATCGCATC 	673
Sbjct	1852	CACAAACAGCGGGTGCCAGCGAGATCAAGCGGGAGGAGAAAGAGGATGAGGAATCGCATC 	1911
Query	674	AGTAGCCGACGCCNAAGAGGANAAGAAGGACCTGAAGGTCCCCACGCACGCGNNCCAGCAG 	733
Sbjct	1912	AGTAGCCGACGCCGAAGAGGACAAGAAGGACCTGAAGGTCCCCACGCACGCGCACCGCAG 	1971
Query	734	TNNNNATGANGTGCTGTCCCTGNNGNAGANNGACCTGANNGACCGGGAGAGNCGTATGGN 	793
Sbjct	1972	TACAGATGAGGTGCTGTCCCTGGAGGAGAACGGACCTGAGGGACCGGGAGAGGCGTATGG- 	2030
Query	794	CCA 796 	
Sbjct	2031	CCA 2033	

Sequence File : E47-1600.seq

>  [ref|NM_011548.4|](#)  Mus musculus transcription factor 3 (Tcf3), transcript variant 8, mRNA
Length=3305

[GENE ID: 21423 Tcf3](#) | transcription factor 3 [Mus musculus]
(Over 100 PubMed links)

Score = 979 bits (530), Expect = 0.0
Identities = 533/535 (99%), Gaps = 0/535 (0%)
Strand=Plus/Plus

Sbjct	1985	CTGTCCCTGGAGGAGAAGGACCTGAGGGACCAGGGAGAGGCCTATGGCCAATAACGCTCGG	2044
Query	262	GAGCGGGTGCCTGCGCTGCCGGACATTAACGAGGCCTCCGGAGCTGGCCGCATGTGCCAG	321
Sbjct	2045	GAGCGGGTGCCTGCGCTGCCGGACATTAACGAGGCCTCCGGAGCTGGCCGCATGTGCCAG	2104
Query	322	CTGCACCTCAAGTCGGATAAGGCAGACCAAGCTGCTCATCCTGCAGCAGCGGTGCAG	381
Sbjct	2105	CTGCACCTCAAGTCGGATAAGGCAGACCAAGCTGCTCATCCTGCAGCAGCGGTGCAG	2164
Query	382	GTCATCCTGGGCTGGAGCAGCAGGTGCGAGAACGCAACCTGAACCCAAAGCAGCCTGC	441
Sbjct	2165	GTCATCCTGGGCTGGAGCAGCAGGTGCGAGAACGCAACCTGAACCCAAAGCAGCCTGC	2224
Query	442	TTGAAGCGGAGGGAGGAGGAGAAGGTGTCTGGCGTGGTCGGGACCCACAGCTGCCCTG	501
Sbjct	2225	TTGAAGCGGAGGGAGGAGGAGAAGGTGTCTGGCGTGGTCGGGACCCACAGCTGCCCTG	2284
Query	502	TCAGCCGCCACCCGGGCCTGGTGAGGCCACAACCCAGCCGGCACCTGTGAG	556
Sbjct	2285	TCAGCCGCCACCCGGGCCTGGTGAGGCCACAACCCAGCCGGCACCTGTGAG	2339