OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC117181

eRF1 (ETF1) (NM_004730) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	eRF1 (ETF1) (NM_004730) Human Untagged Clone
Tag:	Tag Free
Symbol:	eRF1
Synonyms:	D5S1995; ERF; ERF1; RF1; SUP45L1; TB3-1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC117181 sequence for NM_004730 edited (data generated by NextGen Sequencing)

```
ATGGCGGACGACCCCAGTGCTGCCGACAGGAACGTGGAGATCTGGAAGATCAAGAAGCTC
ATTAAGAGCTTGGAGGCGGCCCGCGGCAATGGCACCAGCATGATATCATTGATCATTCCT
CCCAAAGACCAGATTTCACGAGTGGCAAAAATGTTAGCGGATGAGTTTGGAACTGCATCT
AACATTAAGTCACGAGTAAACCGCCTTTCAGTCCTGGGAGCCATTACATCTGTACAACAA
AGACTCAAACTTTATAACAAAGTACCTCCAAATGGTCTGGTTGTATACTGTGGAACAATT
GTAACAGAAGAAGGAAAGGAAAAGAAAGTCAACATTGACTTTGAACCTTTCAAACCAATT
AATACGTCATTGTATTTGTGTGACAACAAATTCCATACAGAGGCTCTTACAGCACTACTT
TCAGATGATAGCAAGTTTGGATTCATTGTAATAGATGGTAGTGGTGCACTTTTTGGCACA
CTCCAAGGAAACACAAGAGAAGTCCTGCACAAATTCACTGTGGATCTCCCAAAGAAACAC
GGTAGAGGAGGTCAGTCAGCCTTGCGTTTTGCCCGTTTAAGAATGGAAAAGCGACATAAC
TATGTTCGGAAAGTAGCAGAGACTGCTGTGCAGCTGTTTATTTCTGGGGACAAAGTGAAT
GTGGCTGGTCTAGTTTTAGCTGGATCCGCTGACTTTAAAACTGAACTAAGTCAATCTGAT
ATGTTTGATCAGAGGTTACAATCAAAAGTTTTAAAATTAGTTGATATATCCTATGGTGGT
GAAAATGGATTCAACCAAGCTATTGAGTTATCTACTGAAGTCCTCTCCAACGTGAAATTC
ATTCAAGAGAAGAAATTAATAGGACGATACTTTGATGAAATCAGCCAGGACACGGGCAAG
TACTGTTTTGGCGTTGAAGATACACTAAAGGCTTTGGAAATGGGAGCTGTAGAAATTCTA
ATAGTCTATGAAAATCTGGATATAATGAGATATGTTCTTCATTGCCAAGGCACAGAAGAG
GAGAAAATTCTCTATCTAACTCCAGAGCAAGAAAAGGATAAATCTCATTTCACAGACAAA
GAGACCGGACAGGAACATGAGCTTATCGAGAGCATGCCCCTGTTGGAATGGTTTGCTAAC
AACTATAAAAAATTTGGAGCTACGTTGGAAATTGTCACAGATAAATCACAAGAAGGGTCT
CAGTTTGTGAAAGGATTTGGTGGAATTGGAGGTATCTTGCGGTACCGAGTAGATTTCCAG
GGAATGGAATACCAAGGAGGAGACGATGAATTTTTTGACCTTGATGACTACTAG

Clone variation with respect to NM_004730.2
```


View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004730 unedited
GTTCACATTTGTATACGACTCACTATAGGCGGCCGCGAATTCGCACGAGGGAGAGGGAGC
CGGTGTCCTACGTCAGAGCCGCCGCCGCCGCGGAGCCGCCGCCGGGGAGGAGCAGCCGCT
GCCGCCCAGGACTGGGCCCTTAGGGAGGAGGAGGCGAGAAGATGGCGGACGACCCCAGTG
CTGCCGACAGGAACGTGGAGATCTGGAAGATCAAGAAGCTCATTAAGAGCTTGGAGGCGG
CCCGCGGCAATGGCACCAGCATGATATCATTGATCATTCCTCCCAAAGACCAGATTTCAC
GAGTGGCAAAAATGTTAGCGGATGAGTTTGGAACTGCATCTAACATTAAGTCACGAGTAA
ACCGCCTTTCAGTCCTGGGAGCCATTACATCTGTACAACAAAGACTCAAACTTTATAACA
AAGTACCTCCAAATGGTCTGGTTGTATACTGTGGAACAATTGTAACAGAAGAAGGAAAGG
AAAAGAAAGTCAACATTGACTTTGAACCTTTCAAACCAATTAATACGTCATTGTATTTGT
GTGACAACAAATTCCATACAGAGGCTCTTACAGCACTACTTTCAGATGATAGCAAGTTTG
GATTCATTGTAATAGATGGTAGTGGTGCACTTTTTGGCACACTCCAAGGAAACACAAGAG
AAGTCCTGCACAAATTCACTGTGGATCTCCCAAAGAAACACGGTAGAGGAGGTCAGTCAG
CCTTGCGTTTTGCCCGTTTTAAGATGGAAAAGCGACATAACTATGTTCGGAAAGTAGCAG
AGACTGCTGTGCAGCTNGTTATTTCTGGNGACAAAGTGATGTGGCTGGTCTAGTTTAGCT
GGATCCGCTGACTTTAAAACTGACTAAGTCATCTGGATATGTTGATCAAAGGNTACATCA
AAAGTTTAAAAATAGNTGTA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004730 unedited
GCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTATTCTTAAATATGGTTTAAT
ACTCTTCTCCATTTCTGTACATCACAACACCAAGATTTTGCTGCTTAGTATCTCTCTGCA
GAGGCTATAGAGAATGCAAAGGCTACGGTTTTCACCCCCTCTTATATGTGTTTGTATGTG
TAAGTGTAATACATATCAATATATATTGATACACACATCAATATATAATGCAATATATAT
CACCGAAGAGAACACATTGATTAAAGAAATACAAAAATTTGGCATCATTTCCAAACTTAA
ATAGTAAAAATAAAAACTACAAAAGGAGCTGCATACCCTAAATGTATCATGTGAAACAAC
AAGCATATTCAAAAATGTAAATTTACATCCAATTTCTCTGGTCTTGTCATATCACATCAG
ACCCATTTACAATGGCAAAACCCTAAGGTACTGCTGTGAAGAGAGCATGTTTGCTCGCTC
TTGGGTGTTCTGCAAACAAATAGCAGAGCCCAAAGCANAAAAGCCTGGTCCGGTGAAGTC
TCCACGTTGGTGAACACCAAATAATGGACTCTTCTCACAGGGGGTTGAGACATCANGTTA
CACATTGACAGACAGTATTTGGACCTCAGAGTACAGTGTGAGAACCAGAAACTTTACATT
TAAGACATACTCCCTTCATTCNAGTGAAAACAGATATTGGAACGATANGCANGTCTGTAA
CCCTGGAACAAGGAGCTGTGTCAGACCCATAAAGCTACGAGTGACTGAATCAAGTCAGTA
AAGAACAGCAGTCAGGCACTAAAGTTGTAAAAGTACCCANTTGAAAACAAATGCACCCAC
TACCCTATCAGTGNGNAGGTGATACCAATGACTTTNAAACNNCTTGNNCTTCAAGAGCAT
TNGGNATACTTTTTNCATCGCTACACTGGGCACGTACTTTACACTTTGTTCACTGTACCA
CCCTGGGCCCGCATGACCTGCATAAANCNTGGTTCAGNCTGACTTACGCCAGCTGTGAGC
ATAGCTCAGG

Restriction Sites: NotI-NotI

ACCN: NM_004730

Insert Size: 3780 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_004730.1, NP_004721.1
RefSeq Size:	3653 bp
RefSeq ORF:	1314 bp
Locus ID:	2107
UniProt ID:	P62495
Cytogenetics:	5q31.2
Domains:	eRF1_1, eRF1_2, eRF1_3
Gene Summary:	This gene encodes a class-1 polypeptide chain release factor. The encoded protein plays an essential role in directing termination of mRNA translation from the termination codons UAA, UAG and UGA. This protein is a component of the SURF complex which promotes degradation of prematurely terminated mRNAs via the mechanism of nonsense-mediated mRNA decay (NMD). Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 6, 7, and X. [provided by RefSeq, Aug 2013] Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.