

Product datasheet for SC335903

eRF1 (ETF1) (NM_001291975) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	eRF1 (ETF1) (NM_001291975) Human Untagged Clone
Tag:	Tag Free
Symbol:	eRF1
Synonyms:	D5S1995; ERF; ERF1; RF1; SUP45L1; TB3-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335903 representing NM_001291975. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**
 ATGATATCATTGATCATTCTCCAAAGACCAGATTTACGAGTGGCAAAAATGTTAGCGGATGAGTTT
 GGAAGTGCATCTAACATTAAGTCACGAGTAAACCGCCTTTCAGTCCTGGGAGCCATTACATCTGTACAA
 CAAAGACTCAAATTTATAACAAAGTACCTCAAATGGTCTGGTTGTATACTGTGGAACAATTGTAACA
 GAAGAAGGAAAGGAAAAGAAAGTCAACATTGACTTTGAACCTTTCAAACCAATTAATACGTCATTGTAT
 TTGTGTGACAACAAATTCATACAGAGGCTCTTACAGCACTACTTCAGATGATAGCAAGTTTGGATTC
 ATTGTAATAGATGGTAGTGGTGCATTTTGGCACAACCAAGGAAACACAAGAGAAGTCCTGCACAAA
 TTCACTGTGGATCTCCCAAGAAACACGGTAGAGGAGGTCAATCAGCCTTGCGTTTTGCCGTTTAAAGA
 ATGGAAAAGCGACATAACTATGTTTCGAAAGTAGCAGAGACTGCTGTGCAGCTGTTTATTCTGGGGAC
 AAAGTGAATGTGGCTGGTCTAGTTTTAGCTGGATCCGCTGACTTTAAACTGAACTAAGTCAATCTGAT
 ATGTTTGATCAGAGGTTACAATCAAAAGTTTTAAATAGTTGATATCCTATGGTGGTGAAAATGGA
 TTCAACCAAGCTATTGAGTTATCTAGTGAAGTCTCTCAACGTGAAATTCATTCAAGAGAAGAAATTA
 ATAGGACGATACTTTGATGAAATCAGCCAGGACACGGCAAGTACTGTTTGGCGTTGAAGATACACTA
 AAGGCTTTGAAAATGGGAGCTGTAGAAATCTAATAGTCTATGAAATCTGGATATAATGAGATATGTT
 CTTCAATTGCCAAGGCACAGAAGAGGAGAAAATCTCTAATCACTCCAGAGCAAGAAAAGGATAAATCT
 CATTTACAGACAAAGAGACCGGACAGGAACATGAGCTTATCGAGAGCATGCCCTGTGGGAATGGTTT
 GCTAACAACTATAAAAAATTTGGAGCTACGTTGGAATTTGTACAGATAAATCACAAGAAGGGTCTCAG
 TTTGTGAAAGGATTTGGTGAATTGGAGGTATCTTGGGTACCGAGTAGATTTCCAGGGAATGGAATAC
 CAAGGAGGAGACGATGAATTTTTGACCTTGATGACTAC**TAG**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC

Restriction Sites: SgfI-MluI


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ACCN:	NM_001291975
Insert Size:	1215 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:	<u>NM_001291975.1</u>
RefSeq Size:	3875 bp
RefSeq ORF:	1215 bp
Locus ID:	2107
UniProt ID:	<u>P62495</u>
Cytogenetics:	5q31.2
MW:	45.5 kDa
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 (5) has an additional exon in the 5' region, which causes translation initiation at a downstream AUG, compared to variant 1. The resulting isoform (2) has a shorter N-terminus, compared to isoform 1. Variants 2, 4, 5, and 6 all encode the same isoform (2).