

Product datasheet for **SC316962**

FOXRED2 (NM_001102371) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	FOXRED2
Synonyms:	ERFAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>SC316962 representing NM_001102371.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCTCTCCGCTGCGGCCCGTTGTGGGTCCCCGGGGCTGCTCCTGGCCATCGCCCTGCACCCA
GCGCTGTCGGTGCCCCGCGCGGGACTACTGCGTGCTGGGCGCTGGGCCGCGGGCTGCAGATGGCC
TACTTCTGCAGCGCGCTGGACGCGACTACGAGTGTTTCGAGCGGGCCCCGCGGCCCGCAGCTTCTTC
ACACGCTACCCGCGGCACCGCAAGCTCATCAGCATCAACAAGCGGTACACGGGCAAGGCTAACGCCGAG
TTCAACCTCCGCCACGACTGGAATCTCTGCTCAGCCACGACCCCCGGCTGCTCTTACAGACTACTCG
CGTGCTCACTTCCCGACGCCCGGACATGGTGGCTACCTGGGTGACTTCGCGGACACGCTGGGGCTC
CGTGTCAGTACAACACCAACCATCGCCACGTCACCTGGACAAGGACCGACAGGCTGGAATGGCCAC
TACTTCATCTAACTGACCAGAAGGGCCAGGTGCATCAGTGCAGCGTCCTCTTGTAGCCACTGGTTTA
TCAGTCCCCAACAGGTTGACTTCCCTGGCTCCGAATATGCAGAGGGTTACGAGTCCGTGTCCTGGAC
CCTGAGGACTTTGTAGGCCAGAATGTGCTGATCCTGGGTCTGGGAACTCGGCTTTGAGACAGCAGAG
AACATCTTGGGTGTCAAACTTTATCCATATGCTCAGCCGCTCCCGGGTCCGTCTGTCTGGGCCACC
CACTACGTTGGAGACCTCAGAGCCATCAACAATGGCCTGCTGGATACCTACCAGCTCAAGTCCCTGGAC
GGGTGCTCGAGTCTGACCTGACGGATCTGGCCATCCTGAAGGACAGCAAAGGCAAGTTCATGTACC
CCGAAATCTTCTGGAAGAAGCCAAACCAACAGAGTCCGACTCCATCACCTCCCCAGGACGAC
AATGACAACCTTGGCATGCGCGTGCCCTATGACCGGTAATCCGCTGCCGTGGGTGGAATTTGACTTC
TCCATTTTCAATAAGTCCCTCAGACTTAACCTCGGAAATGCATTGCGCAAGAAGTACCGCTGATTCTGA
GCTAGCTACGAATCCAAGGAAGCGGGTCTGTTTATCCTGGGTACTGCCAGCCACTCGGTGGACTAC
CGGAAATCTGCTGGGGCTTCATCCACGATTCCGATACACAGTGGTGTCTTACCGGCTCCTGGAG
CACCGCCACACAGCGTCACCTGGCCCGCACTGAGTCCCATCACACAGTACCAGCTCCATCGTG
CGGCGCGTGAATGAGGCTTCTGGGCTCTACCAGATGTTCCGTTGTCTGGCCGATGTCATCCTGTTGAAG
GAGAATTCACGGCCTTTGAGTACCTGGAGGATTCCCATACAGATGCTGGCCAGCTGGAGACTC
ACAGGGAGGAAGGCAAGCACGGGCTCTTCGTCATCAACATGGAATATGGCAGAAATTTCTCTGGCCCC
GACAAGGACGCTTCTTTGATGACCGGTCTGTGGGACACAGAAAGATGCTGCGAGTCTAACTTTCTT
CATCCTGTCTACTACTATAGATACCTCCCCACGAACAGGAGGTGAGGTTCCGCCCTGCACACTGG
CCCCTGCCCTGGCCACGGCCATCCATCACATCGTGAAGACTTCTTAACAGACTGGACTGCCCCGATC
GGGCACATCTACCTCTGAGGCGTTCCTGGAGAACTGTTTGACACCGATTTGCGAAGCTTCTATGCA
GAGTCTGCTTCTGTTGCGCCCTACGCGCCAGAAGTTGCCACCCTTTTGCCAGCAGGGGTACCTGAGG
ATGCAGGGACTCGTGAGTACCGAGAGCCTTTGGCAGCACAGAGTGGAGAGCAGGCTCCTGCGGGACTAT
GCCCCACAGGCAGGCGCTGGAGGACAGCAGCCAGCAGTGGCGACCAAGAGCCACTAGGTTCCCCC
CTGGCTCCAGGGCTCTGGCTCAGTCCGTGATAGCAACAAGAGGAGCTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

SgfI-MluI

ACCN:

NM_001102371

Insert Size:

2055 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).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001102371.1
RefSeq Size:	4980 bp
RefSeq ORF:	2055 bp
Locus ID:	80020
UniProt ID:	Q8IWF2
Cytogenetics:	22q12.3
Protein Families:	Druggable Genome
MW:	77.8 kDa
Gene Summary:	Probable flavoprotein which may function in endoplasmic reticulum associated degradation (ERAD). May bind non-native proteins in the endoplasmic reticulum and target them to the ubiquitination machinery for subsequent degradation.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1 and encodes isoform 1. Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.