

Product datasheet for **SC111448**

FOXRED2 (NM_024955) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	FOXRED2
Synonyms:	ERFAD
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF:

>OriGene ORF within SC111448 sequence for NM_024955 edited (data generated by NextGen Sequencing)

```

ATGGGCCTCTCCGCTGCGGCCCGTTGTGGGTCCCCGGGGCTGCTCCTGGCCATCGCC
CTGCACCCAGCGCTGTCGGTGCCCCCGCGCGGGACTACTGCGTGCTGGGCGCTGGGCCC
GCGGGCCTGCAGATGGCTACTTCTGACGCGCTGGACGCGACTACGCAGTGTTCGAG
CGGGCCCCGCGGCCGCGAGCTTCTTACACGCTACCCGCGGCACCGCAAGCTCATCAGC
ATCAACAAGCGGTACACGGCAAGGCTAACGCCGAGTTCAACCTCCGCCACGACTGGAAC
TCTCTGCTCAGCCACGACCCCGGCTGCTTTCAGACACTACTCGCGTGCCTACTTCCCC
GACGCCCGCGACATGGTGCGCTACCTGGGTGACTTCGCGGACACGCTGGGGCTCCGTGTC
CAGTACAACACCACCATCGCCACGTCACCTTGACAAGGACCGACAGGCTGGAATGGC
CACTACTTTCATCTAACTGACCAGAAGGGCCAGGTGCATCAGTGCAGCGTCCTCTTTGTA
GCGACTGGTTTATCAGTCCCCAACCAAGTTGACTTCCCTGGCTCCGAATATGCAGAGGGT
TACGAGTCCGTGTCCGTGGACCTGAGGACTTTGTAGGCCAGAATGTGCTGATCCTGGGT
CGTGGGAATCGGCCTTTGAGACAGCAGAGAACATCTTGGGTGTCACAACTTTATCCAT
ATGCTCAGCCGCTCCCGGTCCGTCTGCTCTGGGCCACCCACTACGTTGGAGACCTCAGA
GCCATCAACAATGGCCTGCTGGATACCTACCAGCTCAAGTCCCTGGACGGGCTGCTCGAG
TCTGACCTGACGGATCTGGCCATCCTGAAGGACAGCAAGGCAAGTTCCATGTACCCCG
AAATTTCTTCTGGAAGAAGCCAACACCAACAGAGTGCCGACTCCATCACCTCCCCAG
GACGACAATGACAATTTGCCATGCGCGTGCCCTATGACCGGGTAATCCGCTGCCTGGGC
TGGAACTTTGACTTCTCCATTTTCAATAAGTCCCTCAGACTTAACTCGGGAAATGCATTC
GGCAAGAAGTACCCGCTGATTGAGCTAGCTACGAATCCAAAGGAAGCCGGGTCTGTTT
ATCCTGGGTACTGCCAGCCACTCGGTGGACTACCGGAAATCTGCTGGGGGCTTCATCCAC
GGATTCGATACACAGTGCCTGCTGTTACCGGCTCCTGGAGCACCACCACACAGCGTC
ACCTGGCCCGCCACTGAGCTCCCCATCACACAGCTGACCAGCTCCATCGTGCGGCGCGTG
AATGAGGCTTCTGGGCTCTACCAGATGTTCCGTGTGCTGGCCGATGTATCCTGTTGAAG
GAGAATTCACGGCCTTTGAGTACCTGGAGGAGTTCCCATACAGATGCTGGCCAGCTG
GAGACACTCACAGGGAGGAAGGCAAGCACGGGCTCTTCGTATCAACATGGAATATGGC
AGAAATTTCTCTGGCCCCGACAAGGACGTCTTCTTTGATGACCGGTCTGTGGGGCACACA
GAAGATGCCTGGCAGTCTAACTTTCTTATCCTGTCTACTACTATAGATACCTCCCC
ACCGAACAGGAGGTGAGGTTCCGCCCTGCACACTGGCCCCCTGCCTCGGCCACGGCCATC
CATCACATCGTGAAGACTTCTTAACAGACTGGACTGCCCCGATCGGGCACATCCTACCT
CTGAGGCGCTTCTGGAGAACTGTTTGGACACCGATTGCGAAGCTTCTATGCAGAGTCC
TGCTTCTGTTGCGCCTCACGCGCCAGAAGTTGCCACCCTTTTGCAGCAGGGGTACCTG
AGGATGCAGGGACTCGTGAGTACCGAGAGCCTTTGGCAGCACAGAGTGGAGAGCAGGCTC
CTGCGGGACTATGCCCCACAGGCAGGCGCCTGGAGGACAGCAGCCAGCAGCTTGGCGAC
CAAGAGCCACTAGGTTCCCCCTGGCTCCAGGGCCTCTGGCTCAGTCCGTCGATAGCAAC
AAAGAGGAGCTCTGA

```

Clone variation with respect to NM_024955.5

5' Read Nucleotide

Sequence:

>OriGene 5' read for NM_024955 unedited
 GCGGGTTTTGTAACCCACTTTCTGTAGGCGGCACAGCATTGCGCACGAGGCACCCACTT
 CATGCTCCCAACCCGGTCGCTGGAGAGGGGCCAAGGCCTCTGGAAGGTCCAACCTGGAGGG
 TGGTTCAAAGGGGTGTTGGGCACCCCTCAAATTAGGGGAAAAATTGGGGAGTACGCTCTCCT
 TCCCCAGGGTGGAGGTTACTACAATCATAAGCTTTTATCCGGTGCCCTGAGGAAGGAGA
 CCCTGAGGGAGATAAGATGGAGGGGCTCGGGATTCCGGGGAGCCCCAAGTCCCAGCTTGA
 AACGGTGGAGTCCGGGCAAATGAGCTCTGAGGACGGCTTCTGGGCTGGCCGTGACCCAG
 ATTGCAGTGAGAGTTCGCGCAGGCCCGCCTCTTTCTGGGCTCGTGTCTCCCAAGCCGCC
 GGGCCGGGTGCGAGGCCTTACCCCTCTGATCTGCTGCAGGATGGGCCTCTCCGCTGCGGC
 CCCGTGTGGGGTCCCCCGGGGCTGCTCTGGCCATCGCCCTGCACCCAGCGCTGTCGGT
 GCCCCCGCGCCGGGACTACTGCGTGTGGGCGCTGGGCCCGGGGCTGCAGATGGCCTA
 CTTCTGCAGCGCGCTGAGCGGACTACGCAAGTTCGAGCGGGCCCGCGGCCAGGCAG
 CTTCTTACACGCTACCCGCGGCACCGCAAGCTCATCAGCATCAACAAGCGGTACACGGG
 CAATGCTAACGCCGAGTTTACCTCCGNCACGACTGGAAGTCTCTGCTCAGCCACGACCC
 CCGGCTGCTCTTACAGACTACTGCGTGCCTACTTCCCCGACGCCCGGACATGGTGCG
 CTACCTGGTGACTTCNCGAACGCTGGGGCTCGTGGTCAGTTCAACCCCTTGCCAC
 GTACTTTGGACAGA

3' Read Nucleotide

Sequence:

>OriGene 3' read for NM_024955 unedited
 TTCNTTGNCCGCGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTTAGGAACCAA
 TTCATCATCATTATCACACAAAGGCATTTGAAATGTCACCTTACACATGGTGAGCACAT
 ATGGGTGCCAGCCGAGACAGCAGGATAAGTTTCAAAAATTGACCAGGCAGGTTAGAA
 GCAAGGCATGGTTCAGGATGGCAGAGGGCAGGGAGACAGAAGGGAGTAGGATGGGAGAGA
 AGAGCCAGCTGGAAGATGAGTCAGGGGGTGCAACTGGGGAGAGCAGCTCTGAATCCTGCT
 TCTCAGTGAGAAAGTTGCTAAGATGGCTTTCAGGGAGCTGTCTATCGTGTCTGAGAT
 CAGCCTGCTGGGCTATGATGATAAGCAGGGCTGACCCTCTTGGGCTCTGTAGCTAAGCC
 CAAACCCTGCTGAAATGGGGCGGGAGGTTGAGGCAGTGTGTGGAAGTGACACAGACG
 GNGACTCCCAAGCTGGGGTCCCTGGAATTACTTGACATCCCAAGCTGGTGTCTTCAGCA
 GTCATCTGGGGCAACAATCCCACTGCCATTGTGGTTGTTGAGGATATCAGAGCTTTTG
 TTTTAAAGCGCTTGCCACANACTCTAAGATGCGGATGGGTTTCCCCCTGTGAAGCACTT
 CACAGCGGGGATGCAGGGCCATTCTGAGGAGGGGCTTTGGAAGGAAGAGGAGCCCTTTG
 AGACGGGGCAGAACTGGGGCTGGTCTGGGGCTCANGGACGGTTCCCTTGGAACAACT
 GGGCTGGGAAGGCAGTTCCCACTGGCAAGGAGGCCTTTTGGCCCTGGCAGCAGGGG
 GGAGCCACCGCATCCCGGTTTAAACCCTTAGGGCTTGGGGGTTTGTTCACCCCGCCT
 GACCCGATGCCTTTGGGCTCACCTCGCGGTATCTCGTTCGGCCAAAGGCCCGCCT

Restriction Sites:

NotI-NotI

ACCN:

NM_024955

Insert Size:

3510 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_024955.4, NP_079231.3</u>
RefSeq Size:	3944 bp
RefSeq ORF:	2055 bp
Locus ID:	80020
UniProt ID:	<u>Q8IWF2</u>
Cytogenetics:	22q12.3
Protein Families:	Druggable Genome
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 (1) represents the longest transcript 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.