

Product datasheet for **RG203662**

FOXRED2 (NM_024955) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	FOXRED2
Synonyms:	ERFAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG203662 representing NM_024955
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGCTCTCCGCTGCGGCCCGTTGTGGGTCCCCGGGGCTGCTCCTGGCCATCGCCCTGCACCCAG
 CGCTGTGCGTGCCCCCGCGCCGGGACTACTGCGTGCTGGGCGCTGGGCCCGCGGCCCTGCAGATGGCCTA
 CTTCTGACAGCGCTGGACGCGACTACGCACTGTTTCGAGCGGGCCCCCGCGGCCCGGCAGCTTCTTCACA
 CGCTACCCGCGGCACCGCAAGCTCATCAGCATCAACAAGCGGTACACGGGAAGGTAACGCCGAGTTCA
 ACCTCCGCCAGCTGGAATCTCTGCTCAGCCACGACCCCGGCTGCTCTTCAGACACTACTCGCGTGC
 CTACTTCCCCGACGCCCGCAGCATGGTGCCTACCTGGGTGACTTCGCGGACACGCTGGGGCTCCGTGTC
 CAGTACAACACCACCATCGCCACGTCACTCTGGACAAGGACCGACAGGCTGGAATGGCCACTACTTCA
 TCCTAACTGACCAGAAGGGCCAGGTGCATCAGTGCAGCGTCTCTTTGAGCCACTGGTTTATCAGTCCC
 CAACAGGTTGACTTCCCTGGCTCCGAATATGCAGAGGGTTACGAGTCCGTGTCCTGGACCCTGAGGAC
 TTTGTAGGCCAGAATGTCTGATCCTGGGTGCTGGGAATCGGCCTTTGAGACAGCAGAGAATCTTGG
 GTGTCAAACTTTATCCATATGCTCAGCCGCTCCCGGGTCCGTCTGTCTGGGCCACCCACTACGTTGG
 AGACCTCAGAGCCATCAACAATGGCCTGCTGGATACCTACCAGTCAAGTCCCTGGACGGGCTGCTCGAG
 TCTGACCTGACGGATCTGGCCATCTGAAGGACAGCAAGGCAAGTTCCATGTACCCCGAAATCTTCC
 TGGAGAAGCCAGCACCAACCAGAGTGCCGACTCCATCACCCTCCCCAGGACGACAATGACAATTTGC
 CATGCGCGTGCCCTATGACCGGTAATCCGCTGCCTGGGTGGAATTTGACTTCTCCATTTTCAATAAG
 TCCCTCAGACTTAACCGGAAATGCATTGCGCAAGAAGTACCCGCTGATTGAGCTAGCTACGAATCCA
 AAGGAAGCCGGGCTGTTTATCCTGGGTACTGCCAGCCACTCGGTGGACTACCGGAAATCTGCTGGGG
 CTTTCATCCACGGATTCCGATACACAGTGCCTGCTGTTACCCGGCTCCTGGAGCACCGCCACACAGCGTC
 ACCTGGCCCGCCACTGAGCTCCCCATCACACAGCTGACCAGTCCATCGTGCGGCGCGTGAATGAGGCTT
 CTGGGCTCTACAGATGTTCCGTGTGCTGGCCGATGTCATCCTGTTGAAGGAGAATTCACGGCCTTTGA
 GTACCTGGAGGAGTTCCCATACAGATGCTGGCCAGCTGGAGACTCACAGGAGGAAGGCAAGCAC
 GGGCTCTTCGTCATCAACATGGAATATGGCAGAAATTTCTCTGGCCCCGACAAGGACGCTCTTCTTTGATG
 ACCGGTCTGTGGGACACAGAGATGCCTGGCAGTCTAACTTTCTTCATCCTGTCTACTACTATAG
 ATACCTCCCCACGAACAGGAGGTGAGGTTCCGCCCTGCACACTGGCCCTGCCTCGGCCACCGCCATC
 CATCACATCGTGAAGACTTCTTAACAGACTGGACTGCCCCGATCGGGCACATCTACCTCTGAGGCGCT
 TCCTGGAGAACTGTTTGACACCGATTTCGAAGCTTCTATGCAGAGTCTGCTTCCTGTTCCGCCCTCAC
 GCGCCAGAAGTTGCCACCTTTTCCAGCAGGGGTACCTGAGGATGCAGGGAAGTCTGAGTACCGAGAGC
 CTTTGGCAGCACAGAGTGGAGAGCAGGCTCCTGCGGGACTATGCCCCACAGGCAGGCGCTGGAGGACA
 GCAGCCAGCAGCTTGGCGACCAAGAGCCACTAGGTTCCCCCTGGCTCCAGGCGCTCTGGCTCAGTCCGT
 CGATAGCAACAAAGAGGAGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

Protein Sequence: >RG203662 representing NM_024955
 Red=Cloning site Green=Tags(s)

MGLSAAAPLWPPGLLLAIALHPALSVPPRRDYCVLGAGPAGLQMayFLQrAGRdyAVFERAPRPGSFFT
 RYPRHRKLISINKRYTGKANAENLRHDWNSLLSHDPRLLFRHYSRAYFPDARDMVRYLGDFAIDLGLRV
 QYNTTIAHVTLDKDRQAWNGHYFILTDQKGQVHQCSVLVATGLSVPNQVDFPGSEYAEGYESVSVDPED
 FVGQNVILILGRNSAFETAENILGVTNFIHMLSRSRVRLSWATHYVGDRLAINGLLDITYQLKSLDGLLE
 SDLTDLAILKDSKGKFHVTPKFFLEEASTNQSADSIPLQDDNDNFAMRVPYDRVIRCLGWNDFDSIFNK
 SLRLNSGNFAGKKYPLIRASYESKSGRGLFILGTASHSVDRKSAGGFIHGFRYTVRAVHRLLEHRHHSV
 TWPATELPITQLTSSIVRRVNEASGLYQMFGLADVILLKENSTAFEYLEEFPIQMLAQLETLTGRKAKH
 GLFVINMEYGRNFGSPDKDVFFDDRSVGHTEDAWQSNFLHPVYYYYRYLPTEQEVFRPAHWPLPRPTAI
 HHIVEDFLTDTWAPIGHILPLRRFLENCLDTLRSFYAESCFALTRQKLPPFCQQGYLRMQGLVSTES
 LWQHRVESRLLRDYAPTGRRLDSSQQLGDQEPLGSPLAPGLAQSVDSNKEEL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024955

ORF Size: 2052 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.

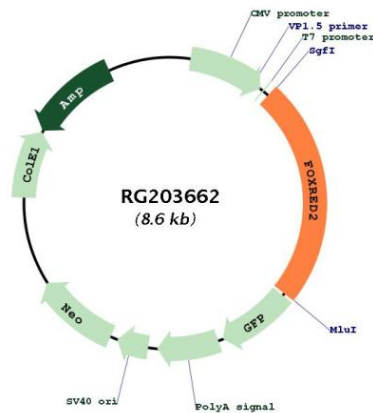
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024955.4](#), [NP_079231.3](#)

RefSeq Size: 3944 bp

RefSeq ORF:	2055 bp
Locus ID:	80020
UniProt ID:	Q8IWF2
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]

Product images:



Circular map for RG203662