

Product datasheet for **RG203459**

FOXRED1 (NM_017547) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	FOXRED1
Synonyms:	FP634; H17; MC1DN19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG203459 representing NM_017547
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGATTCGGAGGGTTCTGCCGACGGCATGGCCGGGGCCTCTTGACCCGAGGCCAGGCACGCGCAGAG
 GAGGCTTTTCTCTGGACTGGGATGGAAAGGTGTCTGAGATTAGAAGAAGATCAAGTCGATCCTGCCTGG
 AAGGTCCTGTGATCTACTGCAAGACACCAGCCACCTGCCTCCCGAGCACTCGGATGTGGTGATCGTGGGA
 GGTGGGGTGCTTGGCTTGTCTGTGGCCTATTGGCTGAAGAAGCTGGAGAGCAGACGAGGTGCTATTTCGAG
 TGCTAGTGGTGGAAACGGGACCAACGTATTCACAGGCCTCCACTGGGCTCTCAGTAGGTGGGATTTGTCA
 GCAGTTCTCATTGCCTGAGAACATCCAGCTCTCCCTCTTTTCAGCCAGCTTTCTACGGAACATCAATGAG
 TACCTGGCCGTAGTCGATGCTCCTCCCTGGACCTCCGGTTCAACCCCTCGGGCTACCTCTTGCTGGCTT
 CAGAAAAGGATGCTGCAGCCATGGAGAGCAACGTGAAAGTGACAGAGGCAGGAGGGAGCCAAAGTTTCTCT
 GATGTCTCCTGATCAGCTTCGGAACAAGTTTCCCTGGATAAACACAGAGGGAGTGGCTTTGGCGTCTTAT
 GGGATGGAGGACGAAGGTTGGTTTGACCCCTGGTGTCTGCTCCAGGGGCTTCGGCGAAAGGTCCAGTCTCT
 TGGGAGTCTTTTCTGCCAGGGAGAGGTGACACGTTTTGTCTCTTCATCTCAACGCATGTTGACCACAGA
 TGACAAAGCGGTGGTCTTGAAAGGATCCATGAAGTCCATGTGAAGATGGACCGCAGCCTGGAGTACCAG
 CCTGTGGAATGCGCCATTGTGATCAACGCAGCCGAGCCTGGTCTGCGCAAATCGCAGCACTGGCTGGTG
 TTGGAGAGGGGCCCGCTGGCACCCCTGCAGGGCACCAAGCTACCTGTGGAGCCGAGGAAAAGGTATGTGTA
 TGTGTGGCACTGCCCCAGGGACAGGCCTAGAGACTCCGCTTGTTCAGACACCAAGTGGAGCCTATTTT
 CGCCGGGAAGGATTAGGTAGCAACTACCTAGGTGGTCTGAGCCCACTGAGCAGGAAGAACCAGGACCCGG
 CGAACCTGGAAGTGGACCATGATTTCTCCAGGACAAGGTGTGGCCCCATTTGGCCCTGAGGGTCCCAGC
 TTTTGAGACTCTGAAGGTTGAGAGCGCTGGGCCGGCTATTACGACTACAACACCTTTGACCAGAATGGC
 GTGGTGGGCCCCACCCGCTAGTTGTCAACATGTACTTTGCTACTGGCTTCAGTGGTCACGGGCTCCAGC
 AGGCCCTGGCATTGGGCGAGCTGTAGCAGAGATGGTACTGAAGGGCAGGTTCCAGACCATCGACCTGAG
 CCCCTTCTCTTACCCGCTTTTACTTGGAGAGAAGATCCAGGAGAACAACATCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203459 representing NM_017547
 Red=Cloning site Green=Tags(s)

MIRRVLPHGMGRGLLTRPGTRRGFSLWDGKVSEIKKKIKSILPGRSCDLLQDTSHPPEHSDVVIVG
 GGVVLGLSVAYWLKKLESRRGAIRVLVVERDHTYSQASTGLSVGGICQQFSLPENIQLSLFSASFLRNINE
 YLAVVDAPPLDLRFNPSGYLLLAASEKDAAAMESNVKVQRQEGAKVSLMSPDQLRNKFPWINTGVALASY
 GMEDEGWFDPWCLLQGLRRKVQSLGVLFCQGEVTRFVSSSQRMLTTDDKAVVLKRIHEVHVKMDRSLEYQ
 PVECAIVINAAGAWSAQIAALAGVGEGPPGTLQGKLPVEPRKRYVYVWHCPQGPGLTPLVPDTSWAYF
 RREGLGSNYLGGSPTEQEEDPANLEVDHDFQDKVWPHLALRVPFETLKVQSAWAGYYDYNTFDQNG
 VVGPHPLVNNMYFATGFSGHGLQQAPGIGRAVAEMVLKGRFQTIDLSPFLFTRFYLGKIQENNI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017547

ORF Size: 1458 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.

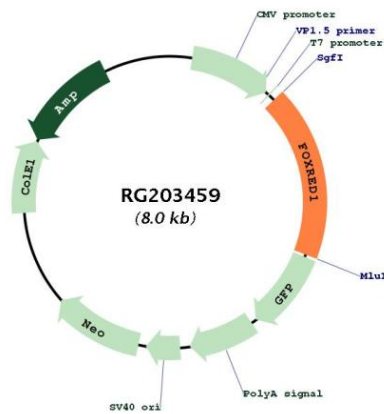
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_017547.2](#), [NP_060017.1](#)

RefSeq Size:	1967 bp
RefSeq ORF:	1461 bp
Locus ID:	55572
UniProt ID:	Q96CU9
Cytogenetics:	11q24.2
Domains:	DAO

Gene Summary: This gene encodes a protein that contains a FAD-dependent oxidoreductase domain. The encoded protein is localized to the mitochondria and may function as a chaperone protein required for the function of mitochondrial complex I. Mutations in this gene are associated with mitochondrial complex I deficiency. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RG203459