

Product datasheet for **MG218398**

Noxred1 (NM_027744) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Noxred1 (NM_027744) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Noxred1
Synonyms:	4933437F05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218398 representing NM_027744 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAATGCTAGAAGACCTTGAGTCTCTGAGTTTGAGTTTGGGATTCCAGAGGAAGAACGTTACTGGC
 TGTACTTACAGGGCCGTTATCGGGGATTGATGATCAAGGGCTGTGCCATGCAGCCTTCTCTGCAAAAT
 GTTCTCTACTTTGAGCAACTTATTGCAGAATCTGCCACGCACAATACATCCCGGACTGTGTCATTTGAT
 AACGCCGCTACTGAGGATGAAGTCTAACCCTGGGCATCATTGGGTGTGGCCACCTTGAAAGCAGCTGA
 CTAATGTATTGCTGAAAACCGTCCCTATCCCTGCCGAGAACCTGCAGATCTCCACTAGGAGGCCAGAGTC
 CCTGGGTGAGTTACGGAACTAGGGGTCCGGTGCCTCTATGACAACGCTGCTGTGGCGAGCTGGGCCAAA
 GTGTTGTTCTCTGCTGTCTGCCTGCCAGCTGCCTAATATCTGCCTAGAAATCAATCCAACTCAACA
 AGCACTGCACCGTGTACAGCTTTGTATCCGCCATTCCGCTACCCAGGTTGAAAAGTTTACTGAACCACAC
 CAATATCCTGAGGCCCCAGTACCAATTTGCTGAGGATTATGACAACATCTGGGGAGAGAATGAGGAGGTC
 CCAATTGCTCTCCAAGATACAACGATTATCCGGGTACCTGCCCTACAATAATCTTGGGGGAGTAATCC
 TTAATGTCAAGTGGATAGAGGGGCTGTGCTATGCCCTCATCAATGCCTGTACGTCAAGGAGCGTGTTC
 CTCACAGGTGCTGAAGCTTCTAAACAACTGCTTCTCCCTATGCACCTAGAAAGCTGCACGACAGACCCA
 GAATCCTGCCCCAGTTTAATTTAACAGATTTTCATGAGCAAAAGCTACGTCAAAACTTGTATCAAAAAA
 GGCTTTTCCCCTGTTTGTCTGACTACTGTGCAACTCAAGGAACTCCTTTTAGCCAGCACATCTCAGC
 CACTCCTTCTCTCAGGACCACATTAGTCTTTTGTACTGTGAAGTATTTGGCCTACCATAAGCGAAGAA
 GAATTGCCTTATATTTCCACAGTTATCCGGCCCTAGTAGAGGAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG218398 representing NM_027744
 Red=Cloning site Green=Tags(s)

MEMLEDLESLRFEFGIPEEERYWLYLQGRYRGLMIKGCCHAAFFCKMFSTLSNLLQNLPRTHPRTVSFD
 NAATEDELLTVGIIGCGHLGKQLTNVLLKTVPIPAENLQISTRPESELGELRKLGVRCVYDNAAVASWAK
 VLFLCCLPAQLPNICLEIQSKLNKHCTVYSFVSAIPLRLKSLNHTNLRPQYQFAEDYDNIWGENEEV
 PIALQDTTIIIRGTCPPYNNLGGVILNVKWIEGLCYALINACTSRSVFHSQVLKLLNKLKLLPMHLESCCTDP
 ESCPQFNLTDPMKSYVKNLYQKRPFPPWFDLTTVQLKETPFSQHISATPSLQDHISLLYCEVFGLTISEE
 ELPYISTVIRPLVEEK

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_027744

ORF Size: 1098 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_027744.1](#), [NP_082020.1](#)

RefSeq Size: 1412 bp

RefSeq ORF: 1101 bp

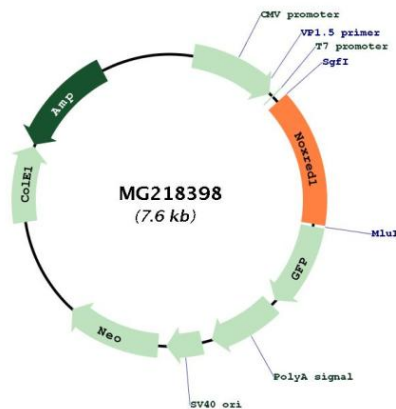
Locus ID: 71275

UniProt ID: [Q9D3S5](#)

Cytogenetics: 12 D2

Gene Summary: Probable oxidoreductase.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG218398