

Product datasheet for **RG234800**

PROX1 (NM_001270616) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PROX1 (NM_001270616) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PROX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234800 representing NM_001270616
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTGACCATGACAGCACAGCCCTCTTAAGCCGGCAAACCAAGAGGAGAAGAGTTGACATTGGAGTGA
 AAAGGACGGTAGGGACAGCATCTGCATTTTTGCTAAGGCAAGAGCAACGTTTTTTAGTGCCATGAATCC
 CCAAGTTCTGAGCAGGATGTTGAGTATTCAGTGGTGCAGCATGCAGATGGGGAAAAAGTCAAATGTA
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 CCCAGCTGTTGAAAAATAACATGAACAAAAATGGTGGCACGGAGCCAGTTTCCAAGCCAGCGGTCTCTC
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 GATGTTGATCCTTCTGGAAGAAGGCCATATAAAGGTGATCTGCAAGCTGGATAGTGAAGTCCCTGAGA
 TTTTCAAATCCCGAACTGCCTACAAGAGCTGCTTCATGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234800 representing NM_001270616
 Red=Cloning site Green=Tags(s)

MPDHDSTALLSRQTKRRRVDIGVKRTVGTASAFFAKARATFFSAMNPQGSEQDVEYSVVQHADGEKSNVL
 RKLLKRANSYEDAMPPFGATIIISQLLKNMNKNGGTEPSFQASGLSSTGSEVHQEDICSNSSRDSPEEC
 LSPFGRPTMSQFDMDRLCDHLRAKRARVENIIRGMSHSPSVALRGNENEREMAPQSVSPRESYRENKRK
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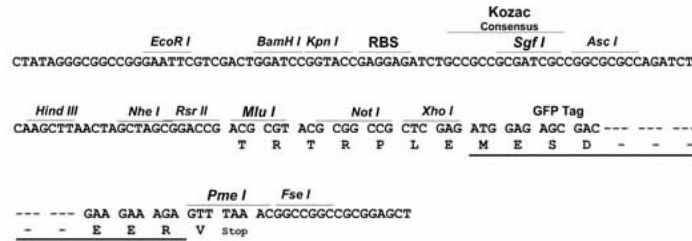
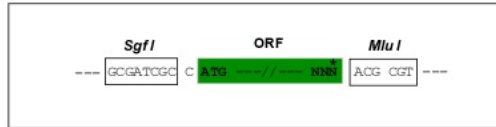
TRTRPLE - GFP Tag - V

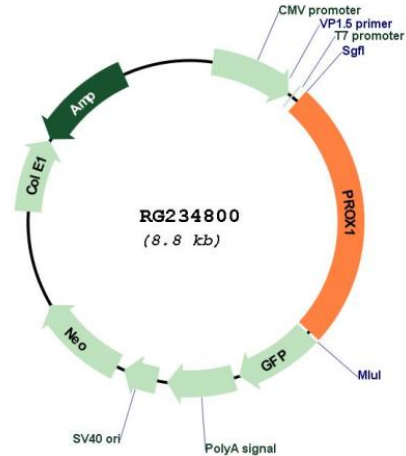
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001270616

ORF Size: 2211 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.

RefSeq: [NM_001270616.2](#)

RefSeq Size: 8505 bp

RefSeq ORF: 2214 bp

Locus ID: 5629

UniProt ID: [Q92786](#)

Cytogenetics: 1q32.3

Protein Families: Embryonic stem cells, ES Cell Differentiation/IPS

Gene Summary: The protein encoded by this gene is a member of the homeobox transcription factor family. Members of this family contain a homeobox domain that consists of a 60-amino acid helix-turn-helix structure that binds DNA and RNA. The protein encoded by this gene is conserved across vertebrates and may play an essential role during development. Altered levels of this protein have been reported in cancers of different organs, such as colon, brain, blood, breast, pancreas, liver and esophagus. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2012]