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Product datasheet for RG201140

PROX1 (NM_002763) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PROX1 (NM_002763) 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:

>RG201140 representing NM_002763
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTGACCATGACAGCACAGCCCTCTTAAGCCGGCAAACCAAGAGGAGAAGAGTTGACATTGGAGTGA
AAAGGACGGTAGGGACAGCATCTGCATTTTTTGCTAAGGCAAGAGCAACGTTTTTTAGTGCCATGAATCC
CCAAGGTTCTGAGCAGGATGTTGAGTATTCAGTGGTGCAGCATGCAGATGGGGAAAAGTCAAATGTACTC
CGCAAGCTGCTGAAGAGGGCGAACTCGTATGAAGATGCCATGATGCCTTTTCCAGGAGCAACCATAATTT
CCCAGCTGTTGAAAAATAACATGAACAAAAATGGTGGCACGGAGCCCAGTTTCCAAGCCAGCGGTCTCTC
TAGTACAGGCTCCGAAGTACATCAGGAGGATATATGCAGCAACTCTTCAAGAGACAGCCCCCCAGAGTGT
CTTTCCCCTTTTGGCAGGCCTACTATGAGCCAGTTTGATATGGATCGCTTATGTGATGAGCACCTGAGAG
CAAAGCGCGCCCGGGTTGAGAATATAATTCGGGGTATGAGCCATTCCCCCAGTGTGGCATTAAGGGGCAA
TGAAAATGAAAGAGAGATGGCCCCGCAGTCTGTGAGTCCCCGAGAAAGTTACAGAGAAAACAAACGCAAG
CAAAAGCTTCCCCAGCAGCAGCAACAGAGTTTCCAGCAGCTGGTTTCAGCCCGAAAAGAACAGAAGCGAG
AGGAGCGCCGACAGCTGAAACAGCAGCTGGAGGACATGCAGAAACAGCTGCGCCAGCTGCAGGAAAAGTT
CTACCAAATCTATGACAGCACTGATTCGGAAAATGATGAAGATGGTAACCTGTCTGAAGACAGCATGCGC
TCGGAGATCCTGGATGCCAGGGCCCAGGACTCTGTCGGAAGGTCAGATAATGAGATGTGCGAGCTAGACC
CAGGACAGTTTATTGACCGAGCTCGAGCCCTGATCAGAGAGCAGGAAATGGCTGAAAACAAGCCGAAGCG
AGAAGGCAACAACAAAGAAAGAGACCATGGGCCAAACTCCTTACAACCGGAAGGCAAACATTTGGCTGAG
ACCTTGAAACAGGAACTGAACACTGCCATGTCGCAAGTTGTGGACACTGTGGTCAAAGTCTTTTCGGCCA
AGCCCTCCCGCCAGGTTCCTCAGGTCTTCCCACCTCTCCAGATCCCCCAGGCCAGATTTGCAGTCAATGG
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GCCTCTCTCTGCCACCACGGGCTTCACCACGTCCACCTTCCGCCACCCCTTCCCCCTTCCCTTGATGGCC
TATCCATTTCAGAGCCCATTAGGTGCTCCCTCCGGCTCCTTCTCTGGAAAAGACAGAGCCTCTCCTGAAT
CCTTAGACTTAACTAGGGATACCACGAGTCTGAGGACCAAGATGTCATCTCACCACCTGAGCCACCACCC
TTGTTCACCAGCACACCCGCCCAGCACCGCCGAAGGGCTCTCCTTGTCGCTCATAAAGTCCGAGTGCGGC
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ACTTGAAAAAAGCAAAGCTCATGTTTTTTTATACCCGTTATCCCAGCTCCAATATGCTGAAGACCTACTT
CTCCGACGTAAAGTTCAACAGATGCATTACCTCTCAGCTCATCAAGTGGTTTAGCAATTTCCGTGAGTTT
TACTACATTCAGATGGAGAAGTACGCACGTCAAGCCATCAACGATGGGGTCACCAGTACTGAAGAGCTGT
CTATAACCAGAGACTGTGAGCTGTACAGGGCTCTGAACATGCACTACAATAAAGCAAATGACTTTGAGGT
TCCAGAGAGATTCCTGGAAGTTGCTCAGATCACATTACGGGAGTTTTTCAATGCCATTATCGCAGGCAAA
GATGTTGATCCTTCCTGGAAGAAGGCCATATACAAGGTCATCTGCAAGCTGGATAGTGAAGTCCCTGAGA
TTTTCAAATCCCCGAACTGCCTACAAGAGCTGCTTCATGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

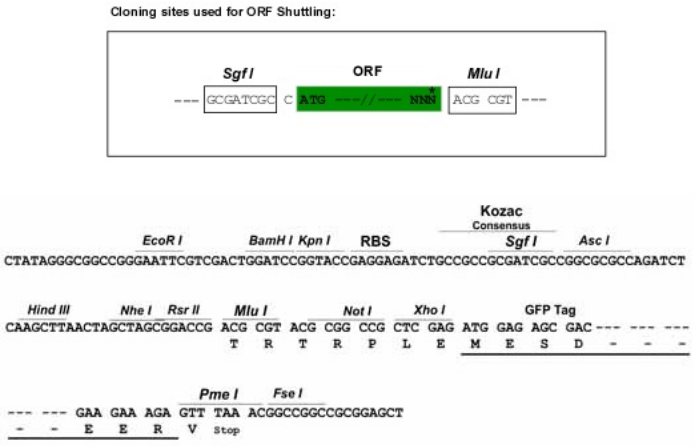
>RG201140 representing NM_002763
Red=Cloning site Green=Tags(s)

MPDHDSTALLSRQTKRRRVDIGVKRTVGTASAFFAKARATFFSAMNPQGSEQDVEYSVVQHADGEKSNVL
RKLLKRANSYEDAMMPFPGATIISQLLKNNMNKNGGTEPSFQASGLSSTGSEVHQEDICSNSSRDSPPEC
LSPFGRPTMSQFDMDRLCDEHLRAKRARVENIIRGMSHSPSVALRGNENEREMAPQSVSPRESYRENKRK
QKLPQQQQQSFQQLVSARKEQKREERRQLKQQLEDMQKQLRQLQEKFYQIYDSTDSENDEDGNLSEDSMR
SEILDARAQDSVGRSDNEMCELDPGQFIDRARALIREQEMAENKPKREGNNKERDHGPNSLQPEGKHLAE
TLKQELNTAMSQVVDTVVKVFSAKPSRQVPQVFPPLQIPQARFAVNGENHNFHTANQRLQCFGDVIIPNP
LDTFGNVQMASSTDQTEALPLVVRKNSSDQSASGPAAGGHHQPLHQSPLSATTGFTTSTFRHPFPLPLMA
YPFQSPLGAPSGSFSGKDRASPESLDLTRDTTSLRTKMSSHHLSHHPCSPAHPPSTAEGLSLSLIKSECG
DLQDMSEISPYSGSAMQEGLSPNHLKKAKLMFFYTRYPSSNMLKTYFSDVKFNRCITSQLIKWFSNFREF
YYIQMEKYARQAINDGVTSTEELSITRDCELYRALNMHYNKANDFEVPERFLEVAQITLREFFNAIIAGK
DVDPSWKKAIYKVICKLDSEVPEIFKSPNCLQELLHE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

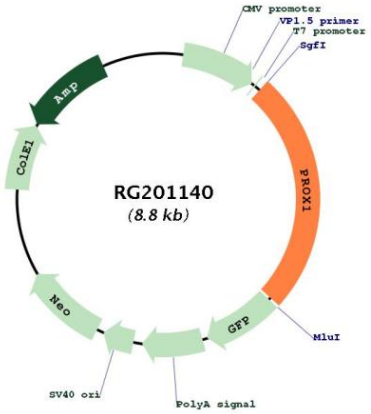


ACCN: NM_002763

ORF Size: 2211 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_002763.5
RefSeq Size:	3088 bp
RefSeq ORF:	2214 bp
Locus ID:	5629
UniProt ID:	Q92786
Cytogenetics:	1q32.3
Domains:	Prox1
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]

Product images:



Circular map for RG201140