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Product datasheet for RC234800

PROX1 (NM_001270616) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PROX1 (NM_001270616) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PROX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC234800 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTGACCATGACAGCACAGCCCTCTTAAGCCGGCAAACCAAGAGGAGAAGAGTTGACATTGGAGTGA
AAAGGACGGTAGGGACAGCATCTGCATTTTTTGCTAAGGCAAGAGCAACGTTTTTTAGTGCCATGAATCC
CCAAGGTTCTGAGCAGGATGTTGAGTATTCAGTGGTGCAGCATGCAGATGGGGAAAAGTCAAATGTACTC
CGCAAGCTGCTGAAGAGGGCGAACTCGTATGAAGATGCCATGATGCCTTTTCCAGGAGCAACCATAATTT
CCCAGCTGTTGAAAAATAACATGAACAAAAATGGTGGCACGGAGCCCAGTTTCCAAGCCAGCGGTCTCTC
TAGTACAGGCTCCGAAGTACATCAGGAGGATATATGCAGCAACTCTTCAAGAGACAGCCCCCCAGAGTGT
CTTTCCCCTTTTGGCAGGCCTACTATGAGCCAGTTTGATATGGATCGCTTATGTGATGAGCACCTGAGAG
CAAAGCGCGCCCGGGTTGAGAATATAATTCGGGGTATGAGCCATTCCCCCAGTGTGGCATTAAGGGGCAA
TGAAAATGAAAGAGAGATGGCCCCGCAGTCTGTGAGTCCCCGAGAAAGTTACAGAGAAAACAAACGCAAG
CAAAAGCTTCCCCAGCAGCAGCAACAGAGTTTCCAGCAGCTGGTTTCAGCCCGAAAAGAACAGAAGCGAG
AGGAGCGCCGACAGCTGAAACAGCAGCTGGAGGACATGCAGAAACAGCTGCGCCAGCTGCAGGAAAAGTT
CTACCAAATCTATGACAGCACTGATTCGGAAAATGATGAAGATGGTAACCTGTCTGAAGACAGCATGCGC
TCGGAGATCCTGGATGCCAGGGCCCAGGACTCTGTCGGAAGGTCAGATAATGAGATGTGCGAGCTAGACC
CAGGACAGTTTATTGACCGAGCTCGAGCCCTGATCAGAGAGCAGGAAATGGCTGAAAACAAGCCGAAGCG
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ACCTTGAAACAGGAACTGAACACTGCCATGTCGCAAGTTGTGGACACTGTGGTCAAAGTCTTTTCGGCCA
AGCCCTCCCGCCAGGTTCCTCAGGTCTTCCCACCTCTCCAGATCCCCCAGGCCAGATTTGCAGTCAATGG
GGAAAACCACAATTTCCACACCGCCAACCAGCGCCTGCAGTGCTTTGGCGACGTCATCATTCCGAACCCC
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CCTTAGACTTAACTAGGGATACCACGAGTCTGAGGACCAAGATGTCATCTCACCACCTGAGCCACCACCC
TTGTTCACCAGCACACCCGCCCAGCACCGCCGAAGGGCTCTCCTTGTCGCTCATAAAGTCCGAGTGCGGC
GATCTTCAAGATATGTCTGAAATATCACCTTATTCGGGAAGTGCAATGCAGGAAGGATTGTCACCCAATC
ACTTGAAAAAAGCAAAGCTCATGTTTTTTTATACCCGTTATCCCAGCTCCAATATGCTGAAGACCTACTT
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CTATAACCAGAGACTGTGAGCTGTACAGGGCTCTGAACATGCACTACAATAAAGCAAATGACTTTGAGGT
TCCAGAGAGATTCCTGGAAGTTGCTCAGATCACATTACGGGAGTTTTTCAATGCCATTATCGCAGGCAAA
GATGTTGATCCTTCCTGGAAGAAGGCCATATACAAGGTCATCTGCAAGCTGGATAGTGAAGTCCCTGAGA
TTTTCAAATCCCCGAACTGCCTACAAGAGCTGCTTCATGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234800 protein sequence
Red=Cloning site Green=Tags(s)

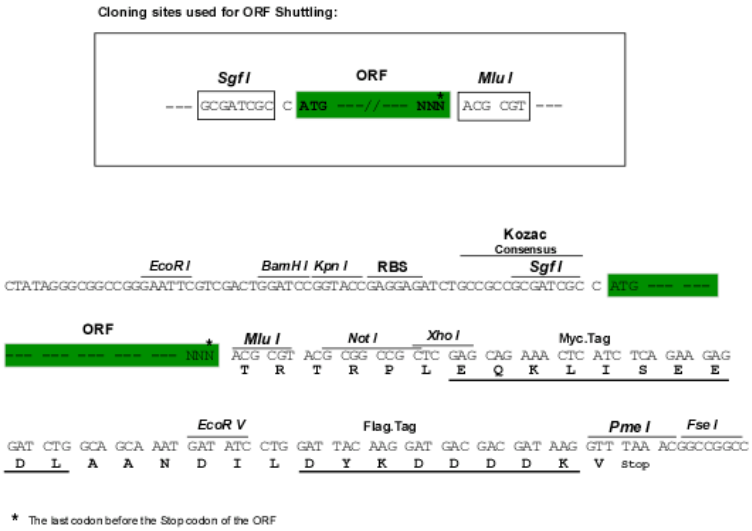
MPDHDSTALLSRQTKRRRVDIGVKRTVGTASAFFAKARATFFSAMNPQGSEQDVEYSVVQHADGEKSNVL
RKLLKRANSYEDAMMPFPGATIISQLLKNNMNKNGGTEPSFQASGLSSTGSEVHQEDICSNSSRDSPPEC
LSPFGRPTMSQFDMDRLCDEHLRAKRARVENIIRGMSHSPSVALRGNENEREMAPQSVSPRESYRENKRK
QKLPQQQQQSFQQLVSARKEQKREERRQLKQQLEDMQKQLRQLQEKFYQIYDSTDSENDEDGNLSEDSMR
SEILDARAQDSVGRSDNEMCELDPGQFIDRARALIREQEMAENKPKREGNNKERDHGPNSLQPEGKHLAE
TLKQELNTAMSQVVDTVVKVFSAKPSRQVPQVFPPLQIPQARFAVNGENHNFHTANQRLQCFGDVIIPNP
LDTFGNVQMASSTDQTEALPLVVRKNSSDQSASGPAAGGHHQPLHQSPLSATTGFTTSTFRHPFPLPLMA
YPFQSPLGAPSGSFSGKDRASPESLDLTRDTTSLRTKMSSHHLSHHPCSPAHPPSTAEGLSLSLIKSECG
DLQDMSEISPYSGSAMQEGLSPNHLKKAKLMFFYTRYPSSNMLKTYFSDVKFNRCITSQLIKWFSNFREF
YYIQMEKYARQAINDGVTSTEELSITRDCELYRALNMHYNKANDFEVPERFLEVAQITLREFFNAIIAGK
DVDPSWKKAIYKVICKLDSEVPEIFKSPNCLQELLHE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6203_c07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001270616

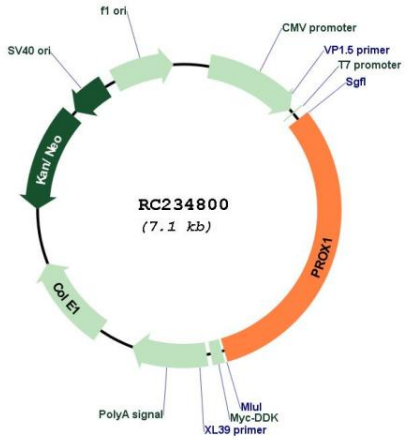
ORF Size: 2211 bp

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
MW:	83.2 kDa
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 RC234800