

Product datasheet for **MR218491**

Prodh (NM_011172) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prodh (NM_011172) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prodh
Synonyms:	Pro-1; Pro1; Ym24d07
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR218491 representing NM_011172
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCTCAAGCGCGTCTTCTTCTGCTGCGGTGCGTGGCACCACGCGTCGCTGCCCTCTCAACCAAACCGC
 AAGCCCAGGAACAGCCTCCCGCAGCCCTGAGGCTCTTCGGGATGTGGGGCGGCCAAGGCTGTGCGGCC
 GCCTGTGCCAGCGTGGACTTCACCAACACGCAGGAGGCGTATCGCAGCCGGCGGAGTTGGGAGTTGGTG
 CGCAACCTGCTAGTGCTGCGGCTGTGTGCGTCGCCGCTGCTAGCGCACACGAGCAGTTGTTCCAAG
 TTGCCAGGAAGCTTCTGGGGCAAAGGATGTTTCGAGAGATTGATGAAGATGACCTTCTATGGCCATTTTGT
 GGCTGGCAGGACCAGGAGTCTATCAGGCCTCTGATCCGGCACAACAAAGCCTTTGGTGTGGCTTTATC
 CTGGACTATGGAGTGGAGGAAGATCTGAGCCCTGAGGAGCGGAGCGCAAAGAGATGGAGTCATGCACTT
 CTGAAGCAGAGAGATGGCAGTGGAGCAAATAAGAGGGAGAAGCAGTATCAGGTGCACCCCGCCTTTGG
 AGACCGCAGAGATGGTGTATCAGTGCACCTACTTCTATGCCAATGAAGCCAAGTGTGACAACTAC
 ATGGAGAACTTACTGCAGTGCATCAAGGCCTCAGGTGGAGCCAGTATGGTGGTTTCTCAGCCATTAAGC
 TCACTGCACTGGGGAGACCACAGTTTCTGCTGCAGTTCTCAGACGTGCTGACCAGGTGGAGACGGTTCTT
 CCATCAAATGGCTGCAGAGCAGGGACAGGCTGGGCGTGCTGTAGACACAAAGCTGGAGTGGCGGTG
 CTCCAGGACAGCATCGCAAAGATGGGCATCGCATCCAGGGCTGAGATTGAAGGGTGGTTCACGCCAGAGA
 CGCTGGGAGTGTCTGGCACCGTGGACTTCTGACTGGAACAGCCTCATTGACAGCAGGACCCGGCTCTC
 CAGGCACTTGGTGGTCCCAATGTGCAGACTGGCCAGCTGGAGCCCTGCTGTACGGTTCACTGAGGAG
 GAAGAGCAGCAGATGAAAAGGATGCTGCAGAGGATGGATGACTGGCCAAGAAAGCAAAGAGGCGAGTG
 TGGCCTGATGATTGATGCTGAGCAGAGCTACTCCAACAGCCATCAGCCGCTGACCTGGAGATGCA
 CGCAGGTTCAATGTGGATAAGCCGTTCACTTCAACACATTCCAGTGCTACCTCAAGGATGCCTATGAC
 AATGTGACCTTGATATGGAAGTGGCTCGCCGTGAGGGTGGTGTGTTGGGGCAAAGCTGGTACGTGGTG
 CATACTGGCCAAAGAGCGTGTGAGGACAGCAGAGATCGGTTATGAGGACCCCATCAACCCTACATATGA
 AGCCACCAATGCTATGTACCACAGGTGCCTTAACATGTTCTGGAGGAGCTGAAGCACAGCACCAGGCA
 GAGGTGATGGTGGCTCCCAACAGGACACCGTGCCTTACGTTGTGCAGGATGAAGGAGATAGGCC
 TGCATCCTGCTGATGGTCAAGTGTGCTCGACAGCTGCTGGGGATGTGTGACCAATCAGTCCCACT
 AGGCCAGGCAAGCTTCTGCTGTACAAGTATGTGCCCTATGGCCCTGTGATGGAGGACTCCCTTACCTG
 TCCCGCCGTGCCCTGGAGAACAGCAGCATCATGAAGGGTCTCAGCGAGAGAGGCAGCTGCTATGGCAGG
 AGCTCCGACGGCGCTGCGCACTGGCAGCCTTCCACCATCCGGCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR218491 representing NM_011172
 Red=Cloning site Green=Tags(s)

MALKRVFLLRSVAPRVAALSTKPQAQEPPASPEALRGCAGAAKAVRPPVAVDFNTQEA YRSRRSWELV
 RNLLVLR L CASPVLLAHHEQLFQVARKLLGQRMFERLMKMTFYGHFVAGEDQESIRPLIRHNKAFVGVFI
 LDYGV EEDL SPEEAERKEMESCTSEAERD GSGANKREKQYQVHPAFGDRRDGVISARTYFYANEAKCDNY
 MENLLQCIKASGGASDGGFSAIKLTALGRPQFLQLQFSDVLTRWRRFFHQMAAEQGGAGRAAVDTKLEVAV
 LQDSIAKMGIASRAEIEGWFTPETLGVSGTVDLLDWNLSLIDSRTLSRHLVVPNVQTGQLEPLL SRFTEE
 EEQMQMRMLQRMDVLAKKAKEAGVRLMIDAEQSYFQPAISR L TLEMQRFFNVDPKPFIFNTFQCYLKDAYD
 NVTLDMELARREGWCFGAKLVRGAYMAQERVRAAEIGYEDPINPTYEATNAMYHRCLNLYLEELKHSTKA
 EVMVASHNEDTVHFTLCRMKEIGLHPADQVCFGQLLGMCDQISFPLGQAGFPVYKYVPYGPVMEVLPYL
 SRRALENSSIMKGAQRERQLLWQELRRLRTGSLFHHPA

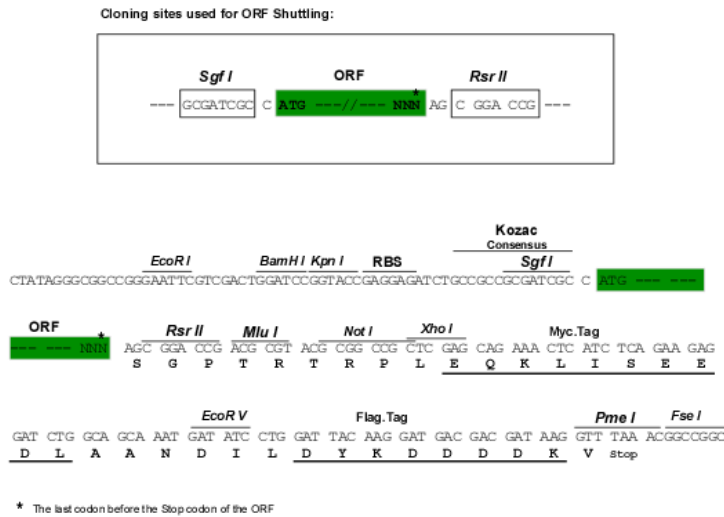
SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9033_b01.zip

Restriction Sites: Sgfl-RsrII

Cloning Scheme:



ACCN: NM_011172

ORF Size: 1797 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_011172.2](#), [NP_035302.2](#)

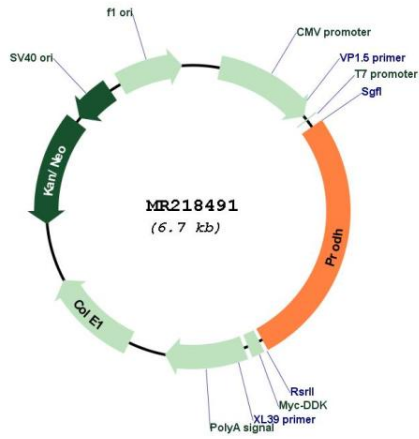
RefSeq Size: 2283 bp

RefSeq ORF: 1800 bp

Locus ID: 19125

UniProt ID: [Q9WU79](#)
 Cytogenetics: 16 11.19 cM
 MW: 68.5 kDa
 Gene Summary: Converts proline to delta-1-pyrroline-5-carboxylate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218491