

Product datasheet for MC202880

Prodh2 (NM_019546) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prodh2 (NM_019546) Mouse Untagged Clone
Tag: Tag Free
Symbol: Prodh2
Synonyms: 2510028N04Rik; 2510038B11Rik; MmPOX; MmPOX1; POX1
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC018182 sequence for NM_019546
 CAGGCACTTGCAATGATCTGGACGCGTCTGCCGCTGTATGGCCCCCTCAAGCCCTCTACAGGTGGCTGGC
 AGCCCCGCGCTTTGATGGTGGGGCCTTCCATGTCAAGGGAACCGCAGAAGTGGCAGCGGCTTTGCTAGT
 GCTTCGCCTATGCGCCTGGCCCCCTTTGGTCACTCATGGACTAGCGTTTCAGGCCTGGTCTCAGCGACTC
 CTGGGATCCCGGCTCTCAGGCGCACTTCTTCGAGCATCCATCTACGGGCAGTTTGTGGCCGGGAGACAG
 CAGAGGAAGTGAGGAAGTGTGTCGGGCAGCTGCAGGCCCTGGGACTCCAGCCCCTGTTGGCAGTACCCAC
 CGAGGAGGAACAGACTCCACTGCCAAGACCAGTGAGGTCTGGTATGAGGAGAACCTTAGCGCCATGCTG
 CGCTGTGTGGACTTATCCCGAGCCCTCGTGGACGCCACGGCCAGCCAGGAACAGCCTCATGCAGCTGA
 AGGTGACCGCGCTAGCCAGCACTCGGCTTTGTAAGAGCTGTGGCTTGGATCCAAAGACCCAGAGGCTC
 CTCGGAGCTGAGCCCTGAGAGGCTGGCAGAAGCCATGGACTCGGGTCGGAACCTCCAGCTCTCCTGCCTC
 AGCACAGAACAGAATCAGCACCTGCAGGCCTCCCTCAGCCGCTTGACCCGAGTGGCACAGCACGCCCGGG
 CGAAGTGTGTGCGCTGCTGGTAGATGTGAATATACTTTCAATTAACCCTGCACTGTCCCTGCTGGTGGC
 TGCCCTGGCTGTGCGCTGGAACAGCCCTGAGGAAGGTGGTCCGTGGGTGTGGAACACTTACCAGGCCTAT
 CTAAGGACACTACCAACGGCTGGAGCAGGACGCCGAGGCAGCACACAAGGCTGGCCTGGCATTGGGG
 TGAAGTTGGTGGCAGGTGCCTATCTGGACAAGGAGATCCATGACACAGCTCCAAGGGAAGGAAGACTG
 TACCCAGCCTGACTATGAGGCCACTAGTCGGAGTTACAGCCGCTGTCTAGAGCTGATGCTGCGCTGCGTG
 TCGAACCACGGTCCCCGTGTACCTCATGGTGGCTTCCCACAATGAAGAATCCGTTCCGCCAGGCAACTA
 AGCGCATGTGGGAGCTGGCATTCTCTGGATGGCCCTGTCTGTTTTGGACAACCTTGGGCATGTGTGA
 CCATGTCTCCCTGGCATTAGGGCAGGCTGGATATATGGTGTACAAGTCTATCCCTATGGCTGCCCTGGAG
 GAGGTGATTCCCTACCTGATCCGAAGAGCCAGGAGAACAGGAGTGTGCTGCAGGGTGCCCGCAGGGAGC
 AGGCACTACTCAGCCAGGAAGTGTGGCGGAGACTGCTGGGAAGGACGGCCTAAGATGTCTCCATCAGCAC
 CATCAGGGCCATGTGCTCAATAAAGGTCCCGAGTCTGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_019546
Insert Size: 1371 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	BC018182 , AAH18182
RefSeq Size:	1464 bp
RefSeq ORF:	1371 bp
Locus ID:	56189
UniProt ID:	Q8VCZ9
Cytogenetics:	7 B1
Gene Summary:	Dehydrogenase that converts trans-4-L-hydroxyproline to delta-1-pyrroline-3-hydroxy-5-carboxylate (Hyp) using ubiquinone-10 as the terminal electron acceptor. Can also use proline as a substrate but with a very much lower efficiency. Does not react with other diastereomers of Hyp: trans-4-D-hydroxyproline and cis-4-L-hydroxyproline. Ubiquinone analogs such as menadione, duroquinone and ubiquinone-1 react more efficiently than oxygen as the terminal electron acceptor during catalysis.[UniProtKB/Swiss-Prot Function]