

## Product datasheet for **RR204324**

### Prodh2 (NM\_001038588) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prodh2 (NM_001038588) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prodh2
Synonyms:	HYPDH
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR204324 representing NM\_001038588  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTCTGGACGCGTCTGCCGCTGTACGGCCACTCCAAGCCCTCTACAGGTGGCTGGCAGCCCCTGCGCT  
 TTGATGGTGGGGCCTTCCATCTCAAGAGAACCGCAGAAGTGGCACGGGCTTTGCTGGTGCTTCGCTATG  
 CGCCTGGCCCCCTTTGGTCACTCATGGACTAGCGTTTCAGGCCTGGTCTCAGCGACTCCTGGGATCTCGG  
 CTCTCGGGCGCACTTCTCCGAGCATCCATCTATGGACAGTTTGTGGCCGGGAGACAGCAGAGGAAGTGA  
 GGGGCTGTGTCCAGCAGCTGCAGGCGATAGGACTCCAGCCCCTGTTGGCAGTGCCACCGAGGAGGAACC  
 AGACTCCGCTGCCAAGACCAGTGAAGCTTGGTATGAGGGGAACCTTAGCGCCATGCTGCACTGTGTGGAC  
 TTGTCACGAGCTGTGCGACAGCCCCATGGCCCAGCCAGGAACAGCCTCATGCAGCTGAAGGTGACCGCGC  
 TAACCAGCCCTCGGCTTTGTAAGGAGCTATCGGCTTGGATCCAAAGACCAAGAGGCTCCTCGGAGCTGAG  
 GCCTGAGAGGCTGGCAGAAGCCATGGAGTCAGGTCGGAACCTCCAGCTCTCCTGCCTCAGCACGGAACAG  
 AATCAACACTGCAGGCCTCCCTCAGCCGCTTGACCCAGTGGCACAGCACGCCCGGGCGCAGGATGTGA  
 GGCTGCTGGTGGACGCTGAATACACGTTTCATCAACCCTGCCCTGTCCCTGCTGGTGGCTGCCCTGGCTAT  
 GCGCTGGAACAGCTCGGAGGAAGAGGGCCCGTGGGTGTGGAACACTTACCAGGCCTATCTGAAGGACACT  
 CACGAACGGCTGGAGCGGGATGCTAAGGCGGCACACGAGGCTGGCCTGGCATTGGGGTGAAGTTGGTGA  
 GAGGTGCCTATCTGGACAAGGAGAGATCCGTGACACAGCTCCACGGGAAGGAAGACTGTACCCAGCCTGA  
 CTATGAGGCCACTAGTCGGAGTTACAGCCGCTGTCTGGAGCTGATGCTGCGCCGCGTGTCCAACACGGT  
 CCCCCTGGCCACTCATGGTGGCTTCCACAATGAAGAATCCATTGCCAGGCAACGAGGCGCATGTGGG  
 AGCTGGGCATTCCTCTGGATGGCCTGTCTGCTTCGGACAACCTCTGGGCATGTGTGACACGCTCCCT  
 GGCATTAGGGCAAGCTGGATACATGGTATATAAGTCTATCCCCTATGGCTGCCTGGAAGAGGTGATACCC  
 TACCTGATCCGAAGAGCCAGGAGAACAGGAGTGTGCTGCAGGGCGCCCGAGGGAGCAGGCACTACTCA  
 GCCAAGAAGTGTGGCGGAGGCTGCTGGGAAGGAAAGCC

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

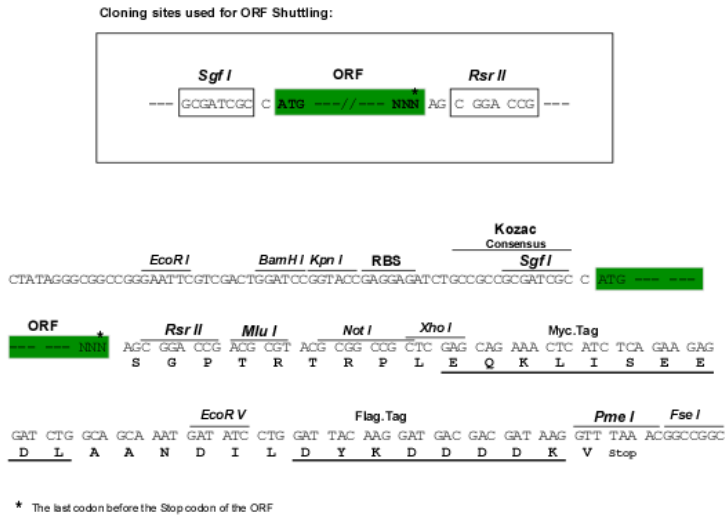
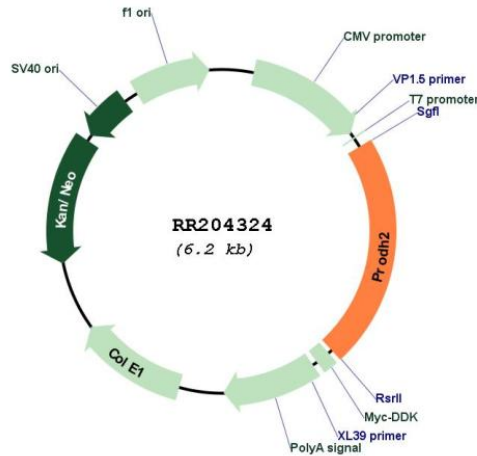
>RR204324 representing NM\_001038588  
 Red=Cloning site Green=Tags(s)

MVWTRLPLYGHKSPSTGGWQPLRFDGGAFHLKRTAELARALLVLRLCAWPPLVTHGLAFQAWSQRLGSR  
 LSGALLRASIIYGFVAGETAEEVRGCVQQLQAIQLQPLLAVPTEEEPDSAAGTSEAWYEGNLSAMLHCVD  
 LSRVADAHGPARNSLMQLKVTALTSRPLCKELSAWIQRPRGSSELRPERLAEMESGRNLQLSCLSTEQ  
 NQHLQASLSRLHRVAQHARAQDVRLLVDAEYTFINPALSLLVAALAMRWNSSEEEGPWWNTYQAYLKDT  
 HERLERDAKAAHEAGLAFGVKLVIRGAYLDKERSVTQLHGKEDCTQPDYEATSRSYSRCLMLRRVSNHG  
 PRCHLMVASHNEESIRQATRRMWELGIPLDGPVCFGQLLGMCDHVSLALGQAGYMYKSIPIYGCLEEVIP  
 YLIRRAQENRSVLQGARREQALLSQELWRRLGRKA

**SGP**TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-RsrII

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001038588

**ORF Size:** 1368 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\\_001038588.1](#), [NP\\_001033677.1](#)

**RefSeq Size:** 1466 bp

**RefSeq ORF:** 1371 bp

**Locus ID:** 361538

**Cytogenetics:** 1q21

**MW:** 51.1 kDa