

Product datasheet for **RR210655**

Enoph1 (NM_001009391) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Enoph1 (NM_001009391) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Enoph1
Synonyms: RGD1309016
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR210655 representing NM_001009391
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGTCGTGGTTCTGTGCCCGCCAAGTCACCGTAATCCTGTTAGATATCGAAGGTACCACAACCCGA
TTGCTTTTCGTGAAGGACATTTTATTTCCGTACATTAAGGAAAATGTCAAGGAGTATCTGCAGACACACTG
GGAGGAGGAGGAGTGCCAGCAGGATGTCAGCCTGCTGAGGAAGCAGGCTGAAGAAGATGCACATCTGGAT
GGGGCTGTCCCGATACCTGTGGCATCTGGTGGTGACGTGCAGCAGATGATCCAGGCTGTGGTAGACAATG
TGTCTGGCAGATGTCTCATGACCGCAAGACCACGGCGCTCAAGCAGCTGCAGGGCCACATGTGGAAGGC
GGCGTTACGGCTGGCCGCATGAAGGCAGAGGTCTTTGCAGATGTGGTCCCTGCCGTTAGAAGGTGGCGG
GAAGCCGGGATGAAGGTGTACATCTATTCTCAGGGAGCGTGGAGGGCGAGAAGCTGCTCTCGGACATT
CCACAGAGGGAGACATTCTGGAGCTCATCGATGGTCACTTTGATACCAAGATAGGACACAAAAGTGGAAAG
TGACAGTTACCGGAAGATTGCAGACAGCATCGGCTGCTCAACCAACAACATCCTATTTCTCACGGATGTC
ACTGTAGAGGCCAGTGTGCCGAGGAAGCAGACGTGCATGTGGCTGTGGTGGTGGAGGCTGGCAATGCCG
GGCTAACCGACGACGAGAAAACCTACTACAACCTCATCTCGTCCCTCAGCGAGCTCTACCTGCCGTCTAC
ACAGAGCAAGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210655 representing NM_001009391
Red=Cloning site Green=Tags(s)

MVVVSVPAEVTVILLDIEGTTTPIAFVKDILFPYIKENVKEYLQTHWEEEECQQDVSLLRKQAEEDAHL
 GAVPIPVASGGDVQMIQAVVDNVSWQMSHDRKTTALKQLQGHMWKAAFTAGRMKAIEVFADVVPVRRWR
 EAGMKVYIYSSGSVEAQKLLFGHSTEGDILELIDGHFDTKIGHKVESDSYRKIADSIGCSTNNILFLTDV
 TVEASAAEEADVHVAVVVRPGNAGLTDDEKTYNLISSFSELYLPSTQSKV

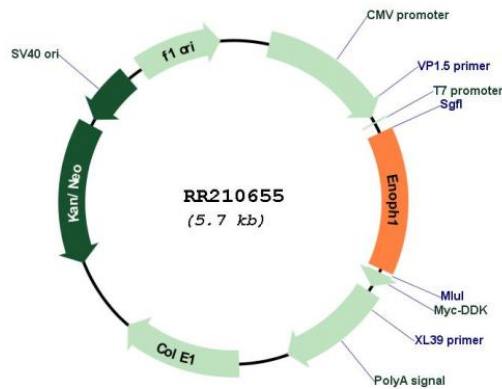
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001009391
ORF Size: 783 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:	<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:	NM_001009391.1 , NP_001009391.1
RefSeq Size:	1710 bp
RefSeq ORF:	786 bp
Locus ID:	305177
UniProt ID:	Q5PPH0
Cytogenetics:	14p22
MW:	28.9 kDa
Gene Summary:	Bifunctional enzyme that catalyzes the enolization of 2,3-diketo-5-methylthiopentyl-1-phosphate (DK-MTP-1-P) into the intermediate 2-hydroxy-3-keto-5-methylthiopentenyl-1-phosphate (HK-MTPenyl-1-P), which is then dephosphorylated to form the acireductone 1,2-dihydroxy-3-keto-5-methylthiopentene (DHK-MTPene).[UniProtKB/Swiss-Prot Function]