

Product datasheet for MR224314

Zadh2 (NM_146090) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Zadh2 (NM_146090) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Zadh2
Synonyms: C530046K17Rik; PTGR-3; Pthr3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR224314 representing NM_146090
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGAGGCTGGCGGCCCGGGGCCGAGCCATCGTGGACATGTCGTACGCCGTCACCTCCTGGACT
 TCCAGGGCTCCGCCATCCCCGAACCATGCAGAAGCTGGTGGTGACCCGGCTGAGCCCTAACTCCACGA
 GGCCGTACCCCTGCGCCGGGACTGCCAGTGCCGCTCCCCGGGGACGGAGACCTCCTCGTCCGGAACCGA
 TTCGTTGGTATTAACGCATCTGACATCAACTATTCGGCTGGCCGCTACGACCCGTCCTGAAGCCACCT
 TTGACATAGGTTTTGAAGGGATTGGTGAAGTGGTGGCCTTAGGCCTCTCTGCTAGTGTAGGTACACAGT
 GGGCCAGGCTGTGGCTTATATGGCTCCTGGTTCCTTTGCTGAGTATACAGTGGTGGCTGCTAGCATTGCA
 ATTCATGCCTTCAGTGAACACAGAGTATCTCACCATGCTGGTTAGTGGCACCCTGCATACCTCAGCC
 TGAAGAGCTTGGGAAGTGTGAGAAGGGAAGAAAGTTCTGGTACAGCAGCCGCTGGGGGCACAGGCCA
 GTTTGCTGTGAGCTTTCCAAGTAGCCAAGTGCCACGTTATCGGAACCTGCTCCTCAGACGAAAAGGCA
 GCTTTTCTGAAATCAATTGGGTGTGATCGGCCATCAACTACAGAACAGAGCCTGTGGAGACGGTTCTGA
 AGCAGGAGTACCCTGAAGCGTTGACGTAGTCTATGAGTCTGTTGGGGAGCCATGTTTGACCTGGCTGT
 GGATGCCTTGGCCACAAAGGGCGCTTGATAGTGATTGGGTTTATCTCTGGCTACCAAAGCCCTACAGGA
 CTCTCACCAATAAAAGCGGGAGTTTTGCCAACCAAGCTCCTGAAGAAGTGGCCAGCCTCAGGGGTTTCT
 TTCTGAACCACTACTTCTCCAAGTACCAGGCTGCCATGGAACGTTTGGTGGAGCTGTACGCTCGTGGGGA
 CCTGGTGTGAGGTGGACCTGGGACACCTGGCTCCGGATGGAAGGTTTATTGGCCTGGAGTCCGTGTTT
 CAGGCTGTGACTATATGTACACGGGAAAAATACTGGGAAGCTTGTGTTGAGTTACCACACCCTGTCA
 GCAGTAAGCTG

ACGCGTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224314 representing NM_146090
Red=Cloning site Green=Tags(s)

MLRLAAAGARAI VMSYARHFLDFQGS AIPRTMQKL VVTRLSPNFHEAVTLRRDCPVPLPGDGDLLVRNR
 FVGINASDINYSAGRYDPSLKPPFDIGFEGIGEVVALGLSASARYTVGQAVAYMAPGSFAEYTVVPASIA
 IPMP5VKPEYL TMLVSGTTAYLSLEELGELSEGKKVLVTAAGGTGQFAVQLSKI AKCHVIGTCS5DEKA
 AFLK5IGCDRPI NYRTEPVETVLKQ EYPEGVDVVYESVGGAMFDLAVDALATKGRLIVIGFISGYQ5PTG
 L5PIKAGVLP TKLLKKSASLRGFFLNHYFSKYQAAMERLLELYARGDLVCEVDLGH LAPDGRF IGLESV
 QAVD5MYTGKNTGKLVVELPHPV5SKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKVV

Chromatograms: https://cdn.origene.com/chromatograms/mm9045_h01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_146090

ORF Size: 1131 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_146090.5](#), [NP_666202.2](#)

RefSeq Size: 3321 bp

RefSeq ORF: 1134 bp

Locus ID: 225791

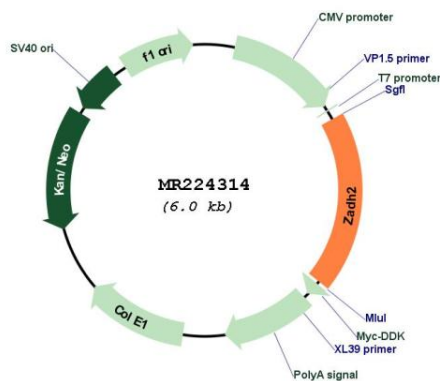
UniProt ID: [Q8BGC4](#)

Cytogenetics: 18 E4

MW: 41 kDa

Gene Summary: Functions as 15-oxo-prostaglandin 13-reductase and acts on 15-keto-PGE1, 15-keto-PGE2, 15-keto-PGE1-alpha and 15-keto-PGE2-alpha with highest efficiency towards 15-keto-PGE2-alpha. Overexpression represses transcriptional activity of PPARG and inhibits adipocyte differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224314