

Product datasheet for **RG209971**

ZADH2 (NM_175907) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZADH2 (NM_175907) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZADH2
Synonyms:	PRG-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209971 representing NM_175907 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCGGCTGGTGCCACCGGGCCCGGCCATCGTGGACATGTCGTACGCCGCCACTTCTGGACT
TCCAGGGCTCCGCCATCCCAAGCCATGCAGAAGCTGGTGGTGACCCGGCTGAGCCCCAACTTCCGCGA
GGCCGTACCCCTGAGCCGGGACTGCCCGGTGCCGCTCCCGGGGACGGAGACCTCCTCGTCCGGAACCGA
TTTGTGGTGTTAATGCATCTGACATCAACTATTCAGCAGGCCGCTATGACCCCTCAGTTAAGCCTCCCT
TTGACATAGGTTTGAAGCATTGGGGAGGTGGTGGCCCTAGGCCTCTCTGCTAGTGCCAGATACACAGT
TGGCCAAGCTGTGGCTTACATGGCACCTGGTTCTTTTGCTGAGTACACAGTTGTGCCTGCCAGCATTGCA
ACTCCAGTGCCCTCAGTAAACCCGAGTATCTTACCCTGCTGTTAAGTGGCACCACCGCATACATCAGCC
TGAAAGAGCTCGGAGGACTGTCCGAAGGGAAAAAGTTTTGGTGACAGCAGCAGCTGGGGAAACGGGCCA
GTTTGCCATGCAGCTTCAAAGAAGGCAAAGTGCCATGTAATTGGAACCTGCTCTTCTGATGAAAAGTCT
GCTTTTCTGAAATCTCTGGCTGTGATCGTCTATCAACTATAAACTGAACCCGTAGGTACCGTCTTA
AGCAGGAGTACCCTGAAGGTGTCGATGTGGTCTATGAATCTGTTGGGGAGCCATGTTTGACTTGGCTGT
AGACGCCCTGGCTACGAAAGGGCGCTTGATAGTAATAGGGTTTATCTCTGGCTACCAAACCTCTACTGCC
CTTTCGCCTGTGAAAGCAGGAACATTGCCAGCCAACTGCTCAAGAAATCTGCCAGCGTACAGGGCTTCT
TCCTGAACCATTACCTTTCTAAGTATCAAGCAGCCATGAGCCACTTGTCTGAGATGTGTGTGAGCGGAGA
CCTGGTTTGTGAGGTGGACCTTGAGATCTGTCTCCAGAGGGCAGGTTTACTGGCCTGGAGTCCATATTC
CGTGCTGTCAATTATATGTACATGGGAAAAAACTGGAAAAATGTAGTTGAATTACCTACTCTGTCA
ACAGTAAGCTG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209971 representing NM_175907
 Red=Cloning site Green=Tags(s)

MLRLVPTGARAIVDMSYARHFLDFQGS AIPQAMQKLVVTRLSPNFREAVTL SRDCPVPLPGDGDLLVRNR
 FVGVNASDINYSAGRYDPSVKPPFDIGFEGIGEVVALGLSASARYTVGQAVAYMAPGSFAEYTVVPASIA
 TPVPSVKPEYL TLLVSGTTAYISLKEGLSEGKKVLVTAAGGTGQFAMQLSKKAKCHVIGTCCSDEKS
 AFLKSLGCDRPINYPVGTVLKQEYPEGVDVVYESVGGAMFDLAVDALATKGR LIVIGFISGYQTPTG
 LSPVKAGTLP AKLLKKSASVQGF LNHYL SKYQAAMSHLLEMCVSGDLVCEVDLGDLSPEGRFTGLIESIF
 RAVNYMYMGKNTGKIVVELPHSVNSKL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175907

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_175907.3](#), [NP_787103.1](#)

RefSeq Size: 4132 bp

RefSeq ORF: 1134 bp

Locus ID: 284273

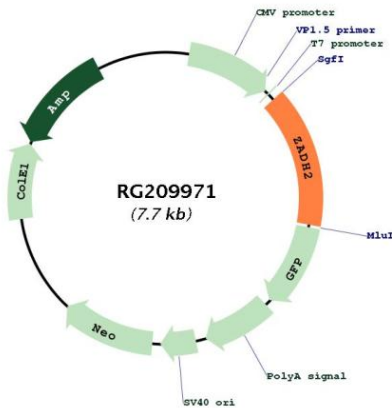
UniProt ID: [Q8N4Q0](#)

Cytogenetics: 18q22.3

Protein Families: Druggable Genome

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 RG209971