

Product datasheet for **RG209182**

ZADH1 (PTGR2) (NM_152444) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZADH1 (PTGR2) (NM_152444) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZADH1
Synonyms:	HEL-S-298; PGR2; ZADH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209182 representing NM_152444 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTGTTCAAAGAGTGGTATTGAATTCTCGACCTGGAAAAATGGTAATCCAGTGGCAGAGAATTTCC
GAATGGAAGAAGTCTATTTACCAGATAATTAATGAAGGACAAGTACAAGTTAGAATCTTTATCTTTT
TGTGGATCCTTACATGCGTTGTAGAATGAATGAAGACTGGCACTGATTATATAACACCTTGGCAGCTA
TCTCAAGTCGTTGATGGTGGAGTATTGGAATTATAGAAGAAAGCAAACACAAAATTTGACTAAAGGCC
ATTTTGTGACTTCTTTCTATTGGCCTGGCAAACCAAGTTATTCTGGATGGAAATAGCCTTGGAAAAGGT
AGACCCACAACCTTGTGGATGGACACCTTTCATATTTTCTTGGAGCTATAGGTATGCCTGGTTGACTTCC
TTGATTGGGATACAGGAAAAAGTCCATATAAAGTCTGGATCTAATAAGACAATGGTTGTCAGTGGGCCCG
CAGGTGCCTGTGGATCTGTGGCTGGGCAGATTGGCCATTTCTTAGGTTGTTCCAGAGTGGTGGGAATTTG
TGAACACATGAGAAATGCATCCTTGGACCTCAGAACTGGGCTTTGATGCTGCAATTAATTATAAAAAA
GACAATGTGGCAGAACAGCTCCGTGAATCATGCCAGCTGGAGTGGATGTTTATTTTGAATGTTGGTG
GTAACATCAGTGATACAGTGATAAGTCAGATGAATGAGAACAGCCACATCATCTGTGTGGTCAAATTT
TCAGTACAACAAAGATGTGCCTTATCCTCCCCGCTATCCCCTGCTATAGAGGCAATCCAGAAAGAAAGA
AACATCACAAGGAAAGATTTCTGGTATTAAATTATAAAGACAATTTGAGCCTGGCATTCTACAGCTGA
GTCAGTGGTTTAAAGAAGGAAAGCTAAAGATTAAGAGACGGTAATAAATGGGTTGGAAAACATGGGAGC
TGCAATCCAGTCCATGATGACAGGAGGTAACATTGAAAAGCAGATAGTTTGCATTTCAGAAGAAATCTCT
TTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209182 representing NM_152444
 Red=Cloning site Green=Tags(s)

MIVQRVVLNSRPGKNGNPVAENFRMEEVYLPDINNEGQVQVRTLYLSVDPYMRMRMNETGTDYITPWQL
 SQVVDGGGIGIIEESKHTNLTKGDFVTSFYWPWQTKVILDGNSLEKVDPQLVDGHL SYFLGAIGMPGLTS
 LIGIQEKGHITAGSNKTMVVSAGAAGACGSVAGQIGHFLGCSRVTGICGTHEKICILLTSELGFDAAINYKK
 DNVAEQLRESCPAGVDVYFDNVGGNISDTVISOQMNENSHIILCGQISQYNKDVPYPPPLSPAIEAIQKER
 NITRERFLVNLNYKDKFEPGILQLSQWFKEGKLIKETVINGLENMGAAFQSMMTGGNIGKQIVCISEEIS
 L

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152444

ORF Size: 1053 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_152444.1](#), [NP_689657.1](#)

RefSeq Size: 2538 bp

RefSeq ORF: 1056 bp

Locus ID: 145482

UniProt ID: [Q8N8N7](#)

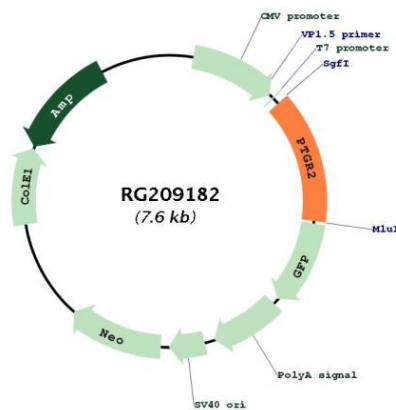
Cytogenetics: 14q24.3

Domains: ADH_zinc_N

Protein Families: Druggable Genome

Gene Summary: This gene encodes an enzyme involved in the metabolism of prostaglandins. The encoded protein catalyzes the NADPH-dependent conversion of 15-keto-prostaglandin E2 to 15-keto-13,14-dihydro-prostaglandin E2. This protein may also be involved in regulating activation of the peroxisome proliferator-activated receptor. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2009]

Product images:



Circular map for RG209182