

Product datasheet for **SC100899**

ZADH1 (PTGR2) (NM_152444) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZADH1 (PTGR2) (NM_152444) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZADH1
Synonyms:	HEL-S-298; PGR2; ZADH1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_152444 edited
ATGATTGTTCAAAGAGTGGTATTGAATTCTCGACCTGGAAAAAATGGTAATCCAGTGGCA
GAGAATTTCCGAATGGAAGAAGTCTATTACCAGATAATATTAATGAAGGACAAGTACAA
GTTAGAACTCTTTATCTTTCTGTGGATCCTTACATGCGTTGTAGAATGAATGAAGACACT
GGCACTGATTATATAACACCTTGGCAGCTATCTCAAGTCGTTGATGGTGGAGGATTGGA
ATTATAGAAGAAAGCAAACACACAAATTTGACTAAAGGCGATTTTGTGACTTCTTTCTAT
TGGCCCTGGCAAACCAAGGTTATTCTGGATGGAATAGCCTTGAAAAGGTAGACCCACAA
CTTGTGGATGGACACCTTTCATATTTTCTTGGAGCTATAGGTATGCCTGGTTTGACTTCC
TTGATTGGGATACAGGAAAAAGGTCATATAACTGCTGGATCTAATAAGACAATGGTTGTC
AGTGGGGCCGAGGTGCCTGTGGATCTGTGGCTGGCAGATTGGCCATTTCTTAGGTTGT
TCCAGAGTGGTGGGAATTTGTGGAACACATGAGAAATGCATCCTCTTGACCTCAGAAGT
GGCTTTGATGCTGCAATTAATTAAAAAAGACAATGTGGCAGAACAGCTCCGTGAATCA
TGCCACAGCTGGAGTGGATGTTTTATTTGACAATGTTGGTGGTAACATCAGTGATACAGTG
ATAAGTCAGATGAATGAGAACAGCCACATCATCCTGTGTGGTCAAATTTCTCAGTACAAC
AAAGATGTGCCTATCCTCCCCGCTATCCCCTGCTATAGAGGCAATCCAGAAAGAAAGA
AACATCACAAGGGAAAGATTTCTGGTATTAATTAAGACAAATTTGAGCCTGGCATT
CTACAGCTGAGTCAGTGGTTTAAAGAAGGAAAGCTAAAGATTAAGAGACGGTAATAAT
GGGTTGAAAAACATGGGAGCTGCATTCCAGTCCATGATGACAGGAGGTAACATTGGAAAG
CAGATAGTTTGCATTTTCAGAAGAAATCTCTTTGTAA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_152444 unedited
 AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCCTGGGGCGAGCTGGGG
 TCGTGCACTACAGCCTCTTTCCGGCAAATCACGCGAGATTTCTGTTACCCGGGCTCCACA
 CGGAGTATTTTATACAGAAATCTTGTGAAACCACTGCCAACCAGAGCAATGATTGTTCA
 AAGAGTGGTATTGAATTCGACCTGGAAAAATGGTAATCCAGTGGCAGAGAATTTCCG
 AATGGAAGAAGTCTATTTACCAGATAATTAATGAAGGACAAGTACAAGTTAGAACTCT
 TTATCTTTCTGTGGATCCTTACATGCGTTGTAGAATGAATGAAGACACTGGCACTGATTA
 TATAACACCTTGGCAGCTATCTCAAGTCGTTGATGGTGGAGGTATTGGAATTATAGAAGA
 AAGCAAACACACAAATTTGACTAAAGGCGATTTTGTGACTTCTTTCTATTGGCCCTGGCA
 AACCAAGGTTATTCTGGATGAAATAGCCTTGAAAAGGTAGACCCACAACCTTGTGGATGG
 ACACCTTTCATATTTTCTGGAGCTATAGGTATGCCTGGTTTGACTTCTTTGATTGNGAT
 ACAGGANAAAGGTCATATAACTGCTGGATCTAATAAGAACATGGTTGTCAGTGGGGCCGC
 ANGTGCCTGTGGATCTGTGGCTGGCAGATTGGCCATTTCTTAANGTTGCCAGAGTGGT
 GGGAAATTTGTGGACACATGAGAAATGCATCCTCCTGACCTCAGAAGTGGGCTTTGATGCT
 GCATTAATTATAAAAAAGACATTGTGCCAGACAGCTCCCGTGATCATGCCAGCTGGAGT
 GATGTTTTATTTGACATGGTTGTTGGTACATCAGTGATACAGTGATAGTCAGAGAATGAG
 ACCAGCCCATCTCCTGTGGGGTCAATTTTCAGTCACCAAGATGGCCTTATCTTCCCGCT
 CCTGTATAGAGCAATCAGAAAN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_152444 unedited
 TCCCGTGGAGCCTATGGGCGATGGTCAACTTCCCAGNCCAGAAAAGCACTGGGGNAGGG
 TACACAGGCTGCCACCCGGGTTCTGTTTACAGAAACAGCTATGACCGCGCCGCAATCTA
 GAGTCGAGTTTTTTTTTTTTTTTTTTTTTCAAAAACAATAATCTTCAGTTTTACTGTTCTGCG
 AGGTTGAGTACAATTAATAAAACAAACTTTTGAGGTACATCAGTAGTTCCTGAACATTC
 ATGTTTACAAACATTTGTTAATTTGCCAGTCCTGTCATTTTCTGAAACTGTCTTTGTTG
 TCAATCTGTTTTTGTGTTTGTGATGGAATTTCACTCTTATCGCCAGGCTGGAGTGCAA
 TGGTGCAAGCTCAGCTCACGGCAACCTCCCCCTCCAGGTTCAAATGATTCTCCAGCCTC
 AGCCTCCTGAGTAGCTGGGATTACAGGCGTGTGCCACCACGCCAGCTAATTTTTGTATT
 TTAGAAGATGGGGGGTTTACCNGTNGGCCAGGCTGGTCTCGAACTCCTGACCTCAAG
 TGATCTGCGCGCCTCTGCCTCCCAAAGTCTAGGATTACAGGCTTGAGACATCAGGCCCG
 GCTGTCAATCTTTTTAATCACCTACAAGTATGTTTACATCTGTTTGCCTCTCAATCTT
 TACAACCTTGACAGTATGTGCCTGCTAACCTAAAAATAACATATGCTTTTCTCAATATATA
 TGGAGTTTTTAGCTATACAGTAAATTATTTGGCAAATACAAAGAGATGATCCTCTGGAG
 TAAATCTGTCAACTAACCAACCTAAGTTATTTATCTTTCCCATACTAAATCCAACCCA
 AAACCGCTGGTCTTCTATCCCAAACCTGTTACACAA

Restriction Sites:

NotI-NotI

ACCN:

NM_152444

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](#)

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]
 Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.