

## Product datasheet for SC106924

### ZADH2 (NM\_175907) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZADH2 (NM_175907) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZADH2
Synonyms:	PRG-3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC106924 sequence for NM_175907 edited (data generated by NextGen Sequencing)

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ATGCTGCGGCTGGTCCCCACCGGGGCCCGGCCATCGTGGACATGTCGTACGCCGCCAC
TTCTTGACTTCCAGGGCTCCGCCATCCCAAGCCATGCAGAAGCTGGTGGTGACCCGG
CTGAGCCCAACTCCGCGAGGCGTCAACCCTGAGCCGGACTGCCCGGTGCCGCTCCCC
GGGACGGAGACCTCCTCGTCCGGAACCGATTTGTTGGTGTAAATGCATCTGACATCAAC
TATTCAGCAGGCCCTATGACCCTCAGTTAAGCCTCCCTTTGACATAGGTTTCGAAGGC
ATTGGGGAGGTGGTGGCCCTAGGCCTCTCTGCTAGTGCCAGATACACAGTTGGCCAAGCT
GTGGCTTACATGGCACCTGGTCTTTTGGCTGAGTACACAGTTGTGCCTGCCAGCATTGCA
ACTCCAGTGCCCTCAGTAAAACCGAGTATCTTACCCTGCTGGTAAGTGGCACCACCGCA
TACATCAGCCTGAAAGAGCTCGGAGGACTGTCGGAAGGGAAAAAAGTTTTGGTGACAGCA
GCAGCTGGGGAAACGGGCCAGTTTGCCATGCAGCTTCAAGAAGGCAAAGTGCCATGTA
ATTGGAACCTGCTCTTCTGATGAAAAGTCTGCTTTTCTGAAATCTCTTGGCTGTGATCGT
CCTATCAACTATAAACTGAACCCGTAGGTACCGTCTTAAGCAGGAGTACCCTGAAGGT
GTCGATGTGGTCTATGAATCTGTTGGGGAGCCATGTTTGACTTGGCTGTAGACGCCCTG
GCTACGAAAGGGCGCTTGATAGTAATAGGGTTTATCTCTGGCTACCAAATCCTACTGGC
CTTTCGCCTGTGAAAGCAGGAACATTGCCAGCCAACTGCTCAAGAAATCTGCCAGCGTA
CAGGGCTTCTTCTGAACCATTACCTTTCTAAGTATCAAGCAGCCATGAGCCACTTGCTC
GAGATGTGTGAGCGGAGACCTGGTTTGTGAGGTGGACCTTGGAGATCTGTCTCCAGAG
GGCAGGTTTACTGGCCTGGAGTCCATATCCGTGCTGTCAATTATGTACATGGGAAAA
AACACTGGAAAAATTGTAGTTGAATTACCTCACTCTGTCAACAGTAAGCTGTAA

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Clone variation with respect to NM\_175907.4  
225 c=>t



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_175907 unedited GAATTTGTAATACGACTCACTATAGGGCGGCCCGGAATTCGCACGAGGCCTCGTGCCGA ATTCGGCACGAGGGCAGGCCATGCTGCGGCTGGTGCCACCGGGGCCGGCCATCGTGG ACATGTCGTACGCCCCCACTTCTGGACTTCCAGGGCTCCGCCATCCCCAAGCCATGC AGAAGCTGGTGGTGACCCGGCTGAGCCCCAACTCCGCGAGGCCGTCACCCTGAGCCGGG ACTGCCCGGTGCCGCTCCCCGGGGACGGAGACCTCCTCGTCCGGAACCGATTTGTTGGTG TTAATGCATCTGACATCAACTATTCAGCAGGCCGCTATGACCCCTCAGTTAAGCCTCCCT TTGACATAGGTTTCGAAGGCATTGGGGAGGTGGTGGCCCTAGGCCTCTCTGCTAGTGCCA GATACACAGTTGGCCAAGCTGTGGCTTACATGGCACCTGGTTCTTTTGTGAGTACACAG TTGTGCCTGCCAGCATTGCAACTCCAGTGCCCTCAGTAAAACCCGAGTATCTTACCCTGC TGGTAAGTGGCACCACCGCATACATCAGCCTGAAAGAGCTCGGAGGACTGTCGGAAGGGA AAAAAGTTNTGGTGACAGCAGCAGCTGGGGGAACGGGCCAGTTTGCCATGCAGCTTTCAA AGAAGGCCAAAGTGCCATGTAATTGGAACCTGCTTCTGATGAAAAGTCTGCTTTTCTGA AATCTCTTGGCTGTGATCGTCTATCAACTATAAACTNGACCCGTNAGTACCGTCCTTA GCANGAGTACCCTGAAGGTGTCGATGTGGTCTATGAATCTGGTGGGGAGCCCATGTTGAC TTGGCTGTAACGCCCTGCTACAAAGGGGCGCTGATN
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_175907
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_175907.3</a></u> , <u><a href="#">NP_787103.1</a></u>
<b>RefSeq Size:</b>	4132 bp
<b>RefSeq ORF:</b>	1134 bp
<b>Locus ID:</b>	284273
<b>UniProt ID:</b>	<u><a href="#">Q8N4Q0</a></u>
<b>Cytogenetics:</b>	18q22.3
<b>Protein Families:</b>	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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The extent of this RefSeq transcript is supported by transcript alignments.