

## Product datasheet for **MG224314**

### Zadh2 (NM\_146090) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zadh2 (NM_146090) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zadh2
Synonyms:	C530046K17Rik; PTGR-3; Pthr3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224314 representing NM_146090 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGAGGCTGGCGGCCCGGGGCCGAGCCATCGTGGACATGTCGTACGCCGTCACCTCCTGGACT  
TCCAGGGCTCCGCCATCCCCGAACCATGCAGAAGCTGGTGGTACCCGGCTGAGCCCTAACTCCACGA  
GGCCGTACCCCTGCGCCGGGACTGCCAGTGCCGCTCCCGGGGACGGAGACCTCCTCGTCCGGAACCGA  
TTCGTTGGTATTAACGCATCTGACATCAACTATTCGGCTGGCCGCTACGACCCGTCCTGAAGCCACCT  
TTGACATAGGTTTTGAAGGGATTGGTGAAGTGGTGGCCTTAGGCCTCTCTGCTAGTGTAGGTACACAGT  
GGCCAGGCTGTGGCTTATATGGCTCCTGGTTCCTTTGCTGAGTATACAGTGGTGGCTGCTAGCATTGCA  
ATCCCATGCCTTCAGTAAACCAGAGTATCTCACCATGCTGGTTAGTGGCACCCTGCATACCTCAGCC  
TGGAAGAGCTTGGGAACTGTCAGAAGGGAAGAAAGTTCTGGTCACAGCAGCCGCTGGGGGCACAGGCCA  
GTTTGCTGTGCAGCTTCCAAGTAGCCAAGTGCCACGTTATCGGAACCTGCTCCTCAGACGAAAAGGCA  
GCTTTTCTGAAATCAATTGGGTGTGATCGGCCATCAACTACAGAACAGAGCCTGTGGAGACGGTTCTGA  
AGCAGGAGTACCCTGAAGCGTTGACGTAGTCTATGAGTCTGTTGGGGAGCCATGTTTGACCTGGCTGT  
GGATGCCTTGGCCACCAAAGGGCGCTTGATAGTATTGGGTTTATCTCTGGCTACCAAAGCCCTACAGGA  
CTCTCACCAATAAAAGCGGGAGTTTTGCCAACCAAGCTCCTGAAGAAGTCGGCCAGCCTCAGGGGTTTCT  
TTCTGAACCACTACTTCTCCAAGTACCAGGCTGCCATGGAACGTTTGTGGAGCTGTACGCTCGTGGGGA  
CCTGGTGTGTGAGGTGGACCTGGACACCTGGCTCCGGATGGAAGGTTTATTGGCCTGGAGTCCGTGTTT  
CAGGCTGTGACTATATGTACACGGGAAAAATACTGGGAAGCTTGTGTTGAGTTACCACACCCTGTCA  
CGAGTAAGCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG224314 representing NM\_146090  
 Red=Cloning site Green=Tags(s)

MLRLAAAGARAI VMSYARHFLDFQGS AIPRTMQKL VVTRLSPNFHEAVTLRRDCPVPLPGDGDLLVRNR  
 FVGINASDINYSAGRYDPSLKPPFDIGFEGIGEVVALGLSASARYTVGQAVAYMAPGSFAEYTVVPASIA  
 IPMP SVKPEYL TMLVSGTTAYLSLEELGELSEGKKVLVTAAGGTGQFAVQLSKI AKCHVIGTCS SDEKA  
 AFLKSIGCDRPI NYRTEPVETVLKQEYPEGVDVVYESVGGAMFDLAVDALATKGRLIVIGFISGYQSPTG  
 LSPIKAGVLP TKLLKKSASLRGFFLNHYFSKYQAAMERLLELYARGDLVCEVDLGH LAPDGRF IGLESV  
 QAVD YMYTGKNTGKLVVELPHPVSSKL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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

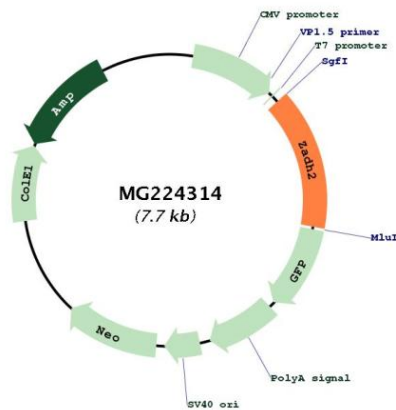
**Locus ID:** 225791

**UniProt ID:** [Q8BGC4](#)

**Cytogenetics:** 18 E4

**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 MG224314