

## Product datasheet for RC228838

### ZADH1 (PTGR2) (NM\_001146154) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZADH1 (PTGR2) (NM_001146154) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZADH1
Synonyms:	HEL-S-298; PGR2; ZADH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228838 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATTGTTCAAAGAGTGGTATTGAATTCTCGACCTGGAAAAATGGTAATCCAGTGGCAGAGAATTTCC  
GAATGGAAGAAGTCTATTTACCAGATAATTAATGAAGGACAAGTACAAGTTAGAATCTTTATCTTTT  
TGTGGATCCTTACATGCGTTGTAGAATGAATGAAGACTGGCACTGATTATATAACACCTTGGCAGCTA  
TCTCAAGTCGTTGATGGTGGAGGATTGGAAATATAGAAGAAAGCAAACACAAAATTTGACTAAAGGCC  
ATTTTGTGACTTCTTTCTATTGGCCCTGGCAAACCAAGGTTATTCTGGATGGAAATAGCCTTGGAAAAGT  
AGACCCACAACCTTGTGGATGGACACCTTTCATATTTTCTTGGAGCTATAGGTATGCCTGGTTGACTTCC  
TTGATTGGGATACAGGAAAAAGTCCATATAACTGCTGGATCTAATAAGACAATGGTTGTCAGTGGGGCCG  
CAGGTGCCTGTGGATCTGTGGCTGGGCAGATTGGCCATTTCTTAGGTTGTTCCAGAGTGGTGGGAATTTG  
TGAACACATGAGAAATGCATCCTTGGACCTCAGAACTGGGCTTTGATGCTGCAATTAATTATAAAAAA  
GACAATGTGGCAGAACAGCTCCGTGAATCATGCCAGCTGGAGTGGATGTTTATTTTGAATGTTGGTG  
GTAACATCAGTGATACAGTGATAAGTCAGATGAATGAGAAGCAGCCACATCATCTGTGTGGTCAAATTT  
TCAGTACAACAAAGATGTGCCTTATCCTCCCCGCTATCCCCTGCTATAGAGGCAATCCAGAAAGAAAGA  
AACATCACAAGGAAAGATTTCTGGTATTAATTAATAAGACAAATTTGAGCCTGGCAATTTACAGCTGA  
GTCAGTGGTTTAAAGAAGGAAAGCTAAAGATTAAGAGACGGTAATAAATGGGTTGGAAAACATGGGAGC  
TGCAATTCAGTCCATGATGACAGGAGGTAACATTGAAAAGCAGATAGTTTGCATTTTCAGAAGAAATCTCT  
TTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC228838 protein sequence  
Red=Cloning site Green=Tags(s)

MIVQRVVLNSRPGKNGNPVAENFRMEEVYLPDINNEGQVQVRTL YL SVDPYMRCRMNEDTGTDYITPWQL  
 SQVVDGGGIGIIEESKHTNLTKGDFVTSFYWPWQTKVILDGNSLEKVDPQLVDGHL SYFLGAI GMPGLTS  
 LIGIQEKGHITAGSNKTMVVSAAAGACGSVAGQIGHFLGCSRVTGICGTHEKCILLTSELGFDAAINYKK  
 DNVAEQLRESCPAGVDVYFDNVGGNISDTVSIQMNENSHIILCGQISQYNKDVPYPPPLSPAIEAIQKER  
 NITRERFLVNLNYKDKFEPGILQLSQWFKEGKLIKETVINGLENMGAAFQSMMTGGNIGKQIVCISEEIS  
 L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6147\\_b06.zip](https://cdn.origene.com/chromatograms/mk6147_b06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001146154

**ORF Size:** 1053 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\\_001146154.1](#), [NP\\_001139626.1](#)

**RefSeq Size:** 2520 bp

**RefSeq ORF:** 1056 bp

**Locus ID:** 145482

**UniProt ID:** [Q8N8N7](#)

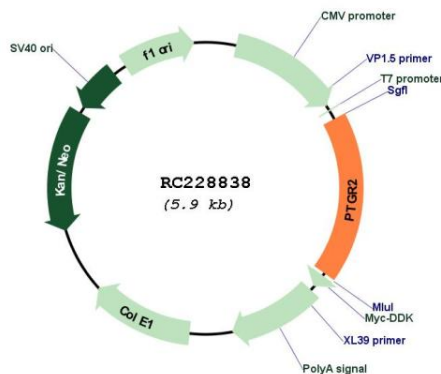
**Cytogenetics:** 14q24.3

**Protein Families:** Druggable Genome

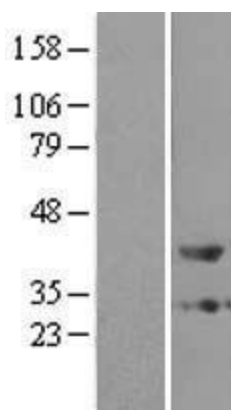
**MW:** 38.5 kDa

**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]

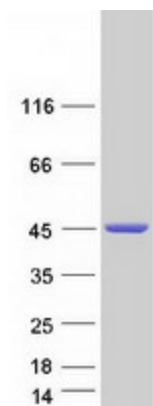
## Product images:



Circular map for RC228838



Western blot validation of overexpression lysate (Cat# [LY431867]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC228839] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PTGR2 protein (Cat# [TP328838]). The protein was produced from HEK293T cells transfected with PTGR2 cDNA clone (Cat# RC228838) using MegaTran 2.0 (Cat# [TT210002]).