

Product datasheet for **RC228839**

ZADH1 (PTGR2) (NM_001146155) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZADH1 (PTGR2) (NM_001146155) 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:	>RC228839 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTGTTCAAAGAGTGGTATTGAATTCTCGACCTGGAAAAATGGTAATCCAGTGGCAGAGAATTTCC
GAATGGAAGAAGTCTATTTACCAGATAATTAATGAAGGACAAGTACAAGTTAGAATCTTTATCTTTT
TGTGGATCCTTACATGCGTTGTAGAATGAATGAAGACTGGCACTGATTATATAACACCTTGGCAGCTA
TCTCAAGTCGTTGATGGTGGAGGATTGGAAATATAGAAGAAAGCAAACACAAAATTTGACTAAAGGCC
ATTTTGTGACTTCTTTCTATTGGCCCTGGCAAACCAAGGTTATTCTGGATGGAAATAGCCTTGAAGAGT
AGACCCACAACCTTGTGGATGGACACCTTTCATATTTTCTTGGAGCTATAGGTATGCCTGGTTGACTTCC
TTGATTGGGATACAGGAAAAAGTCCATATAACTGCTGGATCTAATAAGACAATGGTTGTCAGTGGGGCCG
CAGGTGCCTGTGGATCTGTGGCTGGGCAGATTGGCCATTTCTTAGGTTGTTCCAGAGTGGTGGGAATTTG
TGAACACATGAGAAATGCATCCTTGGACCTCAGAACTGGGCTTTGATGCTGCAATTAATTATAAAAA
GACAATGTGGCAGAACAGCTCCGTGAATCATGCCAGCTGGAGTGGATGTTTATTTTGAATGTTGGTG
GTAACATCAGTGATACAGTGATAAGTCAGATGAATGAGAACAGCCACATCATCTGTGTGGTCAAATTC
TCAGTACAACAAAGATGTGCCTTATCCTCCCCGCTATCCCCTGCTATAGAGGCAATCCAGAAAGAAAGA
AACATCACAAGGAAAGATTTCTGGTATTAATTAATAAGACAAATTTGAGCCTGGCAATTCACAGCTGA
GTCAGTGGTTTAAAGAAGGAAAGCTAAAGATTAAGAGACGGTAATAAATGGGTTGGAAAACATGGGAGC
TGCAATTCAGTCCATGATGACAGGAGGTAACATTGAAAAGCAGATAGTTTGCATTTCCAGAAGAAATCTCT
TTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC228839 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

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001146155

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_001146155.1](#), [NP_001139627.1](#)

RefSeq Size: 2568 bp

RefSeq ORF: 1056 bp

Locus ID: 145482

UniProt ID: [Q8N8N7](#)

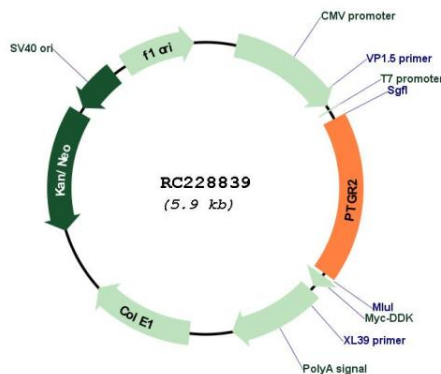
Cytogenetics: 14q24.3

Protein Families: Druggable Genome

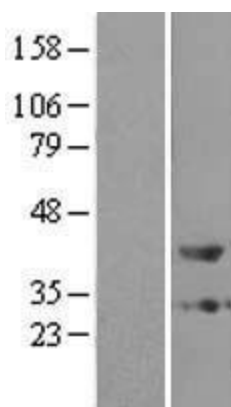
MW: 38.5 kDa

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]

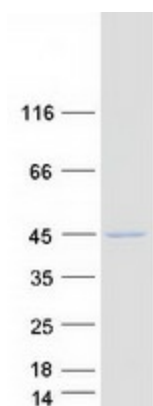
Product images:



Circular map for RC228839



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# [TP328839]). The protein was produced from HEK293T cells transfected with PTGR2 cDNA clone (Cat# RC228839) using MegaTran 2.0 (Cat# [TT210002]).