OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC209182

ZADH1 (PTGR2) (NM_152444) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZADH1 (PTGR2) (NM_152444) 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:

>RC209182 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATTGTTCAAAGAGTGGTATTGAATTCTCGACCTGGAAAAAATGGTAATCCAGTGGCAGAGAATTTCC
GAATGGAAGAAGTCTATTTACCAGATAATATTAATGAAGGACAAGTACAAGTTAGAACTCTTTATCTTTC
TGTGGATCCTTACATGCGTTGTAGAATGAATGAAGACACTGGCACTGATTATATAACACCTTGGCAGCTA
TCTCAAGTCGTTGATGGTGGAGGTATTGGAATTATAGAAGAAAGCAAACACACAAATTTGACTAAAGGCG
ATTTTGTGACTTCTTTCTATTGGCCCTGGCAAACCAAGGTTATTCTGGATGGAAATAGCCTTGAAAAGGT
AGACCCACAACTTGTGGATGGACACCTTTCATATTTTCTTGGAGCTATAGGTATGCCTGGTTTGACTTCC
TTGATTGGGATACAGGAAAAAGGTCATATAACTGCTGGATCTAATAAGACAATGGTTGTCAGTGGGGCCG
CAGGTGCCTGTGGATCTGTGGCTGGGCAGATTGGCCATTTCTTAGGTTGTTCCAGAGTGGTGGGAATTTG
TGGAACACATGAGAAATGCATCCTCTTGACCTCAGAACTGGGCTTTGATGCTGCAATTAATTATAAAAAA
GACAATGTGGCAGAACAGCTCCGTGAATCATGCCCAGCTGGAGTGGATGTTTATTTTGACAATGTTGGTG
GTAACATCAGTGATACAGTGATAAGTCAGATGAATGAGAACAGCCACATCATCCTGTGTGGTCAAATTTC
TCAGTACAACAAAGATGTGCCTTATCCTCCCCCGCTATCCCCTGCTATAGAGGCAATCCAGAAAGAAAGA
AACATCACAAGGGAAAGATTTCTGGTATTAAATTATAAAGACAAATTTGAGCCTGGCATTCTACAGCTGA
GTCAGTGGTTTAAAGAAGGAAAGCTAAAGATTAAAGAGACGGTAATAAATGGGTTGGAAAACATGGGAGC
TGCATTCCAGTCCATGATGACAGGAGGTAACATTGGAAAGCAGATAGTTTGCATTTCAGAAGAAATCTCT
TTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC209182 protein sequence
Red=Cloning site Green=Tags(s)

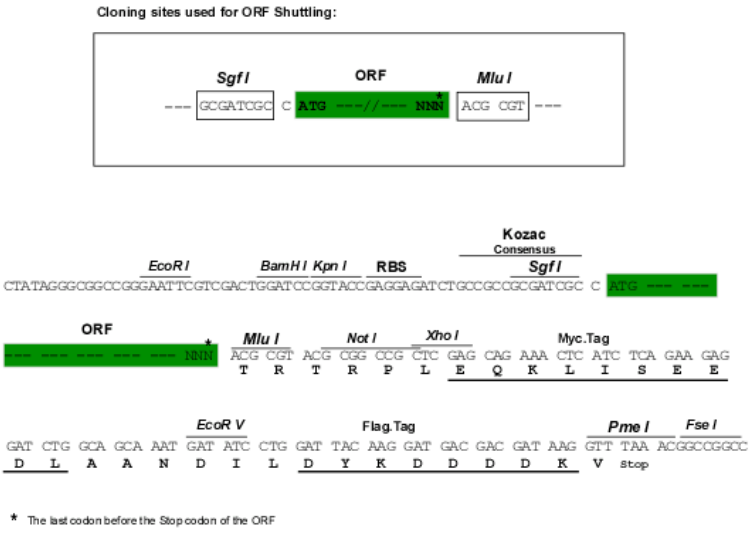
MIVQRVVLNSRPGKNGNPVAENFRMEEVYLPDNINEGQVQVRTLYLSVDPYMRCRMNEDTGTDYITPWQL
SQVVDGGGIGIIEESKHTNLTKGDFVTSFYWPWQTKVILDGNSLEKVDPQLVDGHLSYFLGAIGMPGLTS
LIGIQEKGHITAGSNKTMVVSGAAGACGSVAGQIGHFLGCSRVVGICGTHEKCILLTSELGFDAAINYKK
DNVAEQLRESCPAGVDVYFDNVGGNISDTVISQMNENSHIILCGQISQYNKDVPYPPPLSPAIEAIQKER
NITRERFLVLNYKDKFEPGILQLSQWFKEGKLKIKETVINGLENMGAAFQSMMTGGNIGKQIVCISEEIS
L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6147_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152444

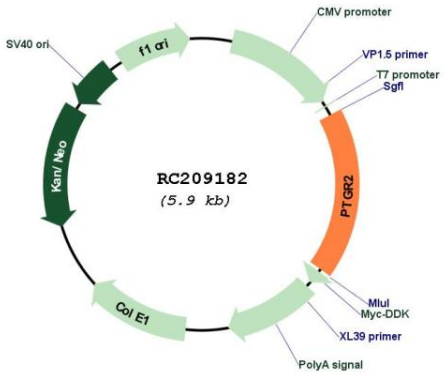
ORF Size: 1053 bp

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.

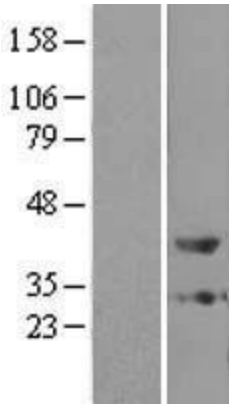
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

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_152444.1, NP_689657.1
RefSeq Size:	2610 bp
RefSeq ORF:	1056 bp
Locus ID:	145482
UniProt ID:	Q8N8N7
Cytogenetics:	14q24.3
Domains:	ADH_zinc_N
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]

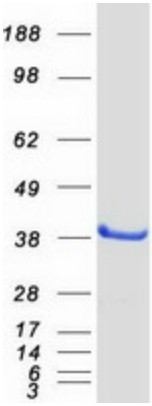
Product images:



Circular map for RC209182



Western blot validation of overexpression lysate (Cat# [LY431867]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected 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# [TP309182]). The protein was produced from HEK293T cells transfected with PTGR2 cDNA clone (Cat# RC209182) using MegaTran 2.0 (Cat# [TT210002]).