

## Product datasheet for **RG228838**

### 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:	TurboGFP
Symbol:	PTGR2
Synonyms:	HEL-S-298; PGR2; ZADH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228838 representing NM_001146154 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATTGTTCAAAGAGTGGTATTGAATTCTCGACCTGGAAAAATGGTAATCCAGTGGCAGAGAATTTCC  
GAATGGAAGAAGTCTATTTACCAGATAATTAATGAAGGACAAGTACAAGTTAGAATCTTTATCTTTT  
TGTGGATCCTTACATGCGTTGTAGAATGAATGAAGACTGGCACTGATTATATAACACCTTGGCAGCTA  
TCTCAAGTCGTTGATGGTGGAGGTATTGGAATTATAGAAGAAAGCAAACACAAAATTTGACTAAAGGCC  
ATTTTGTGACTTCTTTCTATTGGCCTGGCAAACCAAGGTTATTCTGGATGGAAATAGCCTTGGAAAAGGT  
AGACCCACAACCTTGTGGATGGACACCTTTCATATTTTCTTGGAGCTATAGGTATGCCTGGTTGACTTCC  
TTGATTGGGATACAGGAAAAAGTCCATATAACTGCTGGATCTAATAAGACAATGGTTGTCAGTGGGGCCG  
CAGGTGCCTGTGGATCTGTGGCTGGGCAGATTGGCCATTTCTTAGGTTGTTCCAGAGTGGTGGGAATTTG  
TGAACACATGAGAAATGCATCCTCTTGACCTCAGAACTGGGCTTTGATGCTGCAATTAATTATAAAAAA  
GACAATGTGGCAGAACAGCTCCGTGAATCATGCCAGCTGGAGTGGATGTTTATTTTGAATGTTGGTG  
GTAACATCAGTGATACAGTGATAAGTCAGATGAATGAGAACAGCCACATCATCTGTGTGGTCAAATTT  
TCAGTACAACAAAGATGTGCCTTATCCTCCCCGCTATCCCCTGCTATAGAGGCAATCCAGAAAGAAAGA  
AACATCACAAGGAAAGATTTCTGGTATTAATTAATAAGACAAATTTGAGCCTGGCATTCTACAGCTGA  
GTCAGTGGTTTAAAGAAGGAAAGCTAAAGATTAAGAGACGGTAATAAATGGGTTGGAAAACATGGGAGC  
TGCAATCCAGTCCATGATGACAGGAGGTAACATTGAAAAGCAGATAGTTTGCATTTCAGAAGAAATCTCT  
TTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG228838 representing NM\_001146154  
 Red=Cloning site Green=Tags(s)

MIVQRVVLNSRPGKNGNPVAENFRMEEVYLPDINEGQVQVRTLYLSVDPYMRMRMNETGTDYITPWQL  
 SQVVDGGGIGIIEESKHTNLTKGDFVTSFYWPWQTKVILDGNSLEKVDPQLVDGHL SYFLGAI GMPGLTS  
 LIGIQEKGHITAGSNKTMVVSAGAAGACGSVAGQIGHFLGCSRVTGICGTHEKICILLTSELGFDAAINYKK  
 DNVAEQLRESCPAGVDVYFDNVGGNISDTVISOQMNENSHIILCGQISQYNKDVPPYPPPLSPAIEAIQKER  
 NITRERFLVNLNYKDKFEPGILQLSQWFKEGKLIKETVINGLENMGAAFQSMMTGGNIGKQIVCISEEIS  
 L

TRTRPLE - GFP Tag - V

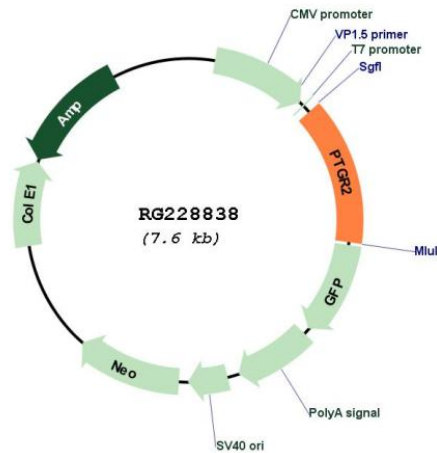
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001146154

<b>ORF Size:</b>	1053 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001146154.1</a> , <a href="#">NP_001139626.1</a>
<b>RefSeq Size:</b>	2520 bp
<b>RefSeq ORF:</b>	1056 bp
<b>Locus ID:</b>	145482
<b>UniProt ID:</b>	<a href="#">Q8N8N7</a>
<b>Cytogenetics:</b>	14q24.3
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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]