

Product datasheet for **SC328588**

OGR1 (GPR68) (NM_001177676) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OGR1 (GPR68) (NM_001177676) Human Untagged Clone
Tag:	Tag Free
Symbol:	OGR1
Synonyms:	A12A6; GPR12A; OGR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328588 representing NM_001177676. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGAACATCACTGCAGACAACCTCTCGATGAGCTGTACCATCGACCATACCATCCACCAGACGCTG
GCCCGGTGGTCTATGTTACCGTCTGGTGGTGGGCTTCCCGCCAACCTGCCTGTCCCTCTACTTCGGC
TACCTGCAGATCAAGGCCGGAACGAGCTGGGCGTGTACCTGTGCAACCTGACGGTGGCCGACCTCTTC
TACATCTGCTCGCTGCCCTTCTGGCTGCAGTACGTGCTGCAGCAGCAACTGGTCTCACGGCGACCTG
TCCTGCCAGGTGTGCGGCATCCTCCTGTACGAGAACATCTACATCAGCGTGGGCTTCTCTGCTGCATC
TCCGTGGACCGCTACCTGGCTGTGGCCATCCCTCCGCTTCCACCAGTCCGGACCCTGAAGGCGGCC
GTCCGCGTCAGCGTGGTCATCTGGGCCAAGGAGCTGTGACCAGCATCTACTTCCCTGATGCACGAGGAG
GTCATCGAGGACGAGAACCAGCACCGCGTGTGCTTTGAGCACTACCCATCCAGGCATGGCAGCGGCC
ATCAACTACTACCGCTTCTGGTGGGCTTCTCTTCCCATCTGCCTGCTGCTGGCGTCTACCAGGGC
ATCCTGCGCGCGTGCGCCGGAGCCACGGCACCCAGAAGAGCCGCAAGGACCAGATCCAGCGGCTGGTG
CTCAGCACCGTGGTCACTTCTGGCTGCTTCTGCCCACACGTGTTGCTGCTGGTGGCAGCGTC
TGGGAGGCCAGCTGCAGCTTCGCCAAGGGCGTTTTCAACGCTACCACTTCTCCCTCTGCTCACCAGC
TTCAACTGCGTCGCCGACCCCGTCTACTGCTTCGTACGAGAGACCACCCACGGGACCTAGCCCGC
CTCCGCGGGGCTGCCTGGCTTCTCACCTGCTCCAGGACCGCCGGCCAGGGAGGCTACCCGCTG
GGTGCCCGGAGGCTCCGGGAAAAGCGGGCCAGGGTGAGGAGCCGAGCTGTTGACCAAGCTCCAC
CCGGCCTTCCAGACCCCTAACTGCCAGGGTCCGGCGGGTTCCCCACGGGAGGTTGGCCTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	SgfI-MluI
ACCN:	NM_001177676



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Insert Size:	1098 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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_001177676.1
RefSeq Size:	2880 bp
RefSeq ORF:	1098 bp
Locus ID:	8111
UniProt ID:	Q15743
Cytogenetics:	14q32.11
Protein Families:	Druggable Genome, GPCR, Transmembrane
MW:	41.1 kDa

Gene Summary:

The protein encoded by this gene is a G protein-coupled receptor for sphingosylphosphorylcholine. The encoded protein is a proton-sensing receptor, inactive at pH 7.8 but active at pH 6.8. Mutations in this gene are a cause of amelogenesis imperfecta. [provided by RefSeq, Feb 2017]

Transcript Variant: This variant (1) differs in the 5' UTR compared to variant 3. Variants 1-3 all encode the same protein. There is an upstream in-frame AUG (uAUG) present; however, translation is thought to begin from the annotated downstream AUG due to inhibition of the uAUG by a small overlapping open reading frame.