

Product datasheet for **RG229950**

OGR1 (GPR68) (NM_001177676) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OGR1 (GPR68) (NM_001177676) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OGR1
Synonyms:	A12A6; GPR12A; OGR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229950 representing NM_001177676 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAACATCACTGCAGACAACCTCTCGATGAGCTGTACCATCGACCATACCATCCACCAGACGCTGG
CCCCGGTGGTCTATGTTACCGTGTGGTGGGCTTCCCGCCAACCTGCCTGTCCCTCTACTTCGGCTA
CCTGCAGATCAAGCCCCGAACGAGCTGGGCGTGTACCTGTGCAACCTGACGGTGGCCGACCTCTTCTAC
ATCTGCTCGTGCCTTCTGGCTGCAGTACGTGTGCAGCAGACAACCTGGTCTCACGGCGACCTGTCT
GCCAGGTGTGCGCATCCTCCTGTACGAGAATCTACATCAGCGTGGGCTTCTCTGTGCATCTCCGT
GGACCGCTACCTGGCTGTGGCCATCCCTTCCGCTTCCACCAGTTCGGACCTGAAGGCGGCCGTCCGC
GTCAGCGTGGTCACTCTGGCCAAGGAGCTGCTGACCAGCATCTACTTCTGATGCACGAGGAGGTATCG
AGGACGAGAACCAGCACCGCTGTGCTTTGAGCACTACCCATCCAGGCATGGCAGCGCGCCATCAACTA
CTACCGCTTCTGGTGGGCTTCTTCCCCATCTGCCTGCTGTGGCGTCTACCAGGGCATCTGCGC
GCCGTGCGCCGGAGCCACGGCACCCAGAAGAGCCGCAAGGACCAGATCCAGCGGCTGGTGTCTCAGACCG
TGGTCACTTCTGGCCTGCTTCTGCCCTACCACGTGTTGCTGTGGTGGCAGCGTCTGGGAGGCCAG
CTGCGACTTCGCCAAGGGCGTTTTCAACGCCTACCACTTCTCCCTCCTGCTCACCAGCTTCAACTGCGTC
GCCGACCCGCTGCTCTACTGCTTCTGTCAGCGAGACCACCCAGGGACCTGGCCCGCTCCGCGGGCCT
GCCTGGCCTTCTCACCTGCTCCAGGACCGCCGGCCAGGAGGCTACCCGCTGGGTGCCCCCGAGGC
CTCCGGGAAAAGCGGGGCCAGGGTGAGGAGCCCGAGCTGTTGACCAAGCTCCACCCGGCCTTCCAGACC
CCTAACTCGCCAGGGTCCGGCGGGTCCCCACGGGCGAGTTGGCC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229950 representing NM_001177676
 Red=Cloning site Green=Tags(s)

MGNITADNSSMSCTIDHTIHQTLAPVVVYTVLVVGF PANCLSLYFGYLQIKARNELGVVLCNLTVADLFY
 ICSLPFWLQYVLQHDNWSHGDLSQVCGILLYENIYISVGFLCCISVDRYLAVAHPRFHQFRTLKA AVG
 VSVVIWAKELLTSIYFLMH EEVIEDENQHRVCFEHYPIQAWQRAINYYRFLVGF LFPICLLLAS YQGILR
 AVRRSHGTQKSRKDQIQRLV LSTVVI FLACFLPYHVLLLVRSVWEAS CDFAKGVFNAYHFSLLLTSFN CV
 ADPVLYCFVSETTHRDLARLRGACLAFLTCSRTGRAREAYPLGAPEASGKSGA QGEEPELLTKLHPAFQT
 PNSPGSGGFPTGRLA

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3331_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001177676

ORF Size: 1095 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_001177676.2](#)

RefSeq Size: 2880 bp

RefSeq ORF: 1098 bp

Locus ID: 8111

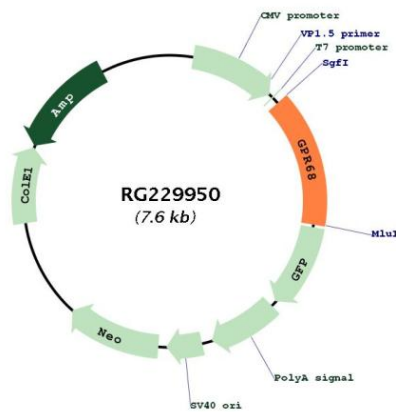
UniProt ID: [Q15743](#)

Cytogenetics: 14q32.11

Protein Families: Druggable Genome, GPCR, Transmembrane

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]

Product images:



Circular map for RG229950