

## Product datasheet for RC212925

### OGR1 (GPR68) (NM\_003485) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OGR1 (GPR68) (NM_003485) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OGR1
Synonyms:	A12A6; GPR12A; OGR1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212925 representing NM_003485 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGAGTGTGGCCCTTCAGGCCAAAGATGGGAACATCACTGCAGACAACCTCTCGATGAGCTGTA  
CCATCGACCATAACATCCACCAGACGCTGGCCCCGGTGGTCTATGTTACCGTGTGGTGGGCTTCCC  
GGCAACTGCCTGTCCTCTACTTCGGCTACCTGCAGATCAAGGCCGGAACGAGCTGGGCGTGTACCTG  
TGCAACCTGACGGTGGCCGACCTCTTCTACATCTGCTCGCTGCCCTTCTGGCTGCAGTACGTGCTGCAGC  
ACGACAACCTGGTCTCACGGCGACCTGTCTGCCAGGTGTGCGGCATCCTCCTGTACGAGAACATCTACAT  
CAGCGTGGGCTTCTCTGCTGCATCTCCGTGGACCGCTACCTGGCTGTGGCCCATCCCTTCCGCTTCCAC  
CAGTTCGGGACCCCTGAAGGCGGCCGTCGGCGTCAGCGTGGTCATCTGGCCAAGGAGCTGCTGACCAGCA  
TCTACTTCTGATGCACGAGGAGGTTCATCGAGGACGAGAACCAGCACCGCGTGTGCTTTGAGCACTACCC  
CATCCAGGCATGGCAGCGGCCATCAACTACTACCGCTTCTGGTGGGCTTCTCTTCCCATCTGCCTG  
CTGCTGGCGTCTACAGGGCATCTGCGCGCCGTGCGCCGAGCCACGGCACCCAGAAGAGCCGCAAGG  
ACCAGATCCAGCGGCTGGTGTCTCAGCACCGTGGTTCATCTTCTGGCCTGCTTCTGCCCTACCACGTGT  
GCTGCTGGTGCAGCGTCTGGGAGGCCAGCTGCGACTTCGCCAAGGGCGTTTTCAACGCCTACCACTTC  
TCCCTCCTGCTCACCAGTTCAACTGCGTCGCCGACCCCGTCTACTGCTTCTGTCAGCGAGACCCACC  
ACCGGGACCTGGCCCGCTCCGCGGGGCTGCCTGGCCTTCTCACCTGCTCCAGGACCGCCGGGCCAG  
GGAGGCCATCCCGCTGGGTGCCCGGAGCCCTCCGGGAAAAGCGGGGCCAGGGTGAAGGCCGAGCTG  
TTGACCAAGCTCCACCCGGCTTCCAGACCCCTAACTCGCCAGGGTGGGCGGGTCCCCACGGGCAGGT  
TGGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC212925 representing NM\_003485  
 Red=Cloning site Green=Tags(s)

MRSVAPSGPKMGNITADNSSMSCTIDHTIHQTLAPVVVYTVLVVGFANCLSLYFGYLQIKARNELGVYL  
 CNLTVADLFYICSLPFWLQYVLQHDNWSHGDLSCQVCGILLYENIYISVGFLCCISVDRYLAVAHPPFRFH  
 QFRTLKAAVGVSVVIWAKELLTSIYFLMHEEVIEDENQHRVCFEHYPIQAWQRAINYYRFLVGLFPICL  
 LLASYQGILRAVRRSHGTQKSRKDQIQRLVLTSTVVIFLACFLPYHVLLLVRVWEASCDFAKGVFNAYHF  
 SLLLTSTFNCVADPVLYCFVSETTHRDLARLRGACLAFLTCRTGRAREAYPLGAPEASGKSGAQGEEPEL  
 LTKLHPAFQTPNSPGSGGFPTGRLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_003485

**ORF Size:** 1125 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\\_003485.2](#), [NP\\_003476.2](#)

**RefSeq Size:** 1523 bp

**RefSeq ORF:** 1098 bp

**Locus ID:** 8111

**UniProt ID:** [Q15743](#)

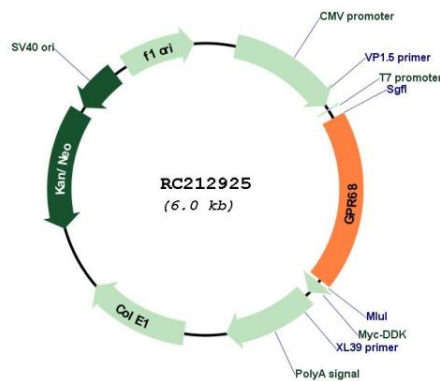
**Cytogenetics:** 14q32.11

**Protein Families:** Druggable Genome, GPCR, Transmembrane

**MW:** 41.9 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]

### Product images:



Circular map for RC212925