

## Product datasheet for **RG219745**

### GPR73A (PROKR1) (NM\_138964) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPR73A (PROKR1) (NM_138964) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GPR73A
Synonyms:	GPR73; GPR73a; PK-R1; PKR1; ZAQ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219745 representing NM_138964 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGACCACCATGGGGTTCATGGATGACAATGCCACCAACACTTCCACCAGCTTCCTTTCTGTGCTCA  
ACCCTCATGGAGCCCATGCCACTTCCTTCCATTCAACTTCAGCTACAGCGACTATGATATGCCTTTGGA  
TGAAGATGAGGATGTGACCAATCCAGGACGTTCTTTGCTGCCAAGATTGTCATTGGGATGGCCCTGGT  
GGCATCATGCTGGTCTGCGGCATTGAAACTTCATCTTTATCGCTGCCCTGGTCCGCTACAAGAACTGC  
GCAACCTCACCAACTGCTCATCGCAACCTGGCCATCTCTGACTTCTGGTGGCCATTGCTGCTGCC  
CTTTGAGATGGACTACTATGTGGTGCAGGACTCTCTGGGAGCACGGCCACGTCCTGTGCACCTCTGTC  
AACTACCTGCGCACTGTCTCTCTATGTCTCCACCAATGCCCTGCTGGCCATCGCCATTGACAGGTATC  
TGGCTATTGTCCATCCGCTGAGACCACGGATGAAGTGCCAAACAGCCACTGGCCTGATTGCCTTGGTGTG  
GACGGTGTCCATCCTGATCGCCATCCCTTCCGCCTACTTCACCACCGAGACGGTCCCTCGTCATTGTCAAG  
AGCCAGGAAAAGATCTTCTGCGGCCAGATCTGGCCTGTGGACCAGCAGCTCTACTACAAGTCTACTTCC  
TCTTTATCTTTGGCATAGAATTCGTGGGCCCGTGGTACCATGACCCTGTGCTATGCCAGGATCTCCCG  
GGAGCTCTGGTTCAAGGCGGTCCCTGGATTCCAGACAGAGCAGATCCGCAAGAGGCTGCGCTGCCGACGG  
AAGACGGTCCCTGGTGTCTATGTGCATCCTCACCGCCTACGTGCTATGCTGGGCGCCCTTCTACGGCTTCA  
CCATCGTGCGCGACTTCTCCCCACCGTGTGTTGTAAGGAGAAGCACTACCTCACTGCCTTCTACATCGT  
CGAGTGCATCGCCATGAGCAACAGCATGATCAACACTCTGTGCTTCTGTGACCGTCAAGAACGACACCGT  
AAGTACTTCAAAAAGATCATGTTGCTCCACTGGAAGGCTTCTTACAATGGCGGTAAGTCCAGTGCAGACC  
TGGACCTCAAGACAATTGGGATGCCTGCCACCGAAGAGGTGGACTGCATCAGACTAAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG219745 representing NM\_138964  
Red=Cloning site Green=Tags(s)

METTMGFMDDNATNTSTSFLSVLNPHGAHATSPFFNFSYSDYDMPLDEDEDVNTSRTFFAAKIVIGMALV  
 GIMLVCGIGNFIFIAALVRYKKLRNLTNLLIANLAISDFLVAIVCCPFEMDYVVRQLSWEHGHVLCSTV  
 NYLRTVSLYVSTNALLAIAIDRYLAIVHPLRPRMKCQTATGLIALVWTVSILIAIPSAFYTTETVLVIVK  
 SQEKIFCGQIWPVDQQLYKSYFLFIFGIEFVGPVVTMTLCYARISRELWFKAVPGFQTEQIRKRLRCRR  
 KTVLVLMCILTAYVLCWAPFYGFIVRDFPPTVFVKEKHYLTAFYIVECIAMSNMINTLCFVTVKNDTV  
 KYFKKIMLLHWKASYNGGKSSADLDLKTIGMPATEEVDCIRLK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_138964

**ORF Size:** 1179 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\\_138964.4](#)

**RefSeq Size:** 1182 bp

**RefSeq ORF:** 1182 bp

**Locus ID:** 10887

**UniProt ID:** [Q8TCW9](#)

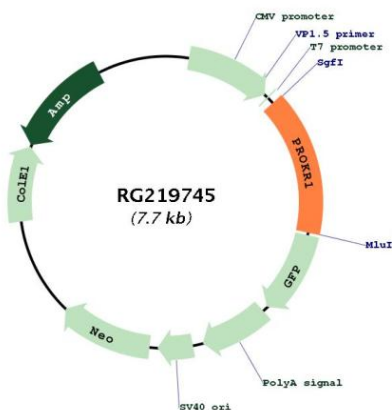
**Cytogenetics:** 2p13.3

**Domains:** 7tm\_1

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

**Gene Summary:** This gene encodes a member of the G-protein-coupled receptor family. The encoded protein binds to prokineticins (1 and 2), leading to the activation of MAPK and STAT signaling pathways. Prokineticins are protein ligands involved in angiogenesis and inflammation. The encoded protein is expressed in peripheral tissues such as those comprising the circulatory system, lungs, reproductive system, endocrine system and the gastrointestinal system. The protein may be involved in signaling in human fetal ovary during initiation of primordial follicle formation. Sequence variants in this gene may be associated with recurrent miscarriage. [provided by RefSeq, Aug 2016]

### Product images:



Circular map for RG219745