

Product datasheet for **RG212006**

PIGR (NM_002644) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PIGR (NM_002644) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PIGR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG212006 representing NM_002644
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCTCTTCGTGCTCACCTGCCTGCTGGCGGTCTTCCAGCCATCTCCACGAAGAGTCCCATATTTG
 GTCCCGAGGAGGTGAATAGTGTGGAAGGTAACCTCAGTGTCCATCACGTGCTACTACCCACCCACCTCTGT
 CAACCGGCACACCCGGAAGTACTGGTGCAGGAGGAGCTAGAGGTGGCTGCATAACCCATCTCTCTCG
 GAGGGCTACGTCTCCAGCAAATATGCAGGCAGGGCTAACCTCACCAACTTCCCGGAGAACGGCACATTTG
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 AGGCCTGTCTTTGATGTCAGCCTGGAGGTGAGCCAGGGTCTGGGCTCCTAAATGACACTAAAGTCTAC
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 CCTTGTACAAGCAGATAGGCCTGTACCCTGTGCTGGTTCATCGACTCCAGTGGTTATGTAATCCCAACTA
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 AGGCTCAGCGATGCTGGGAGTATCTCTGCCAGGCTGGGGATGATTCCAATAGTAATAAGAAGAATGCTG
 ACCTCCAAGTGCTAAAGCCCGAGCCGAGCTGGTTTATGAAGACCTGAGGGGCTCAGTGACCTTCCACTG
 TGCCCTGGGCCCTGAGGTGGCAAACGTGGCCAAATTTCTGTGCCGACAGAGCAGTGGGAAAACTGTGAC
 GTGGTCTCAACACCCTGGGGAAGAGGGCCCGAGCCTTTGAGGGCAGGATCCTGCTCAACCCCGAGGACA
 AGGATGGCTCATTCAAGTGGTGTGATCACAGGCCTGAGGAAGGAGGATGCAGGGCGCTACCTGTGTGGAGC
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 GGAAAAGCGGTGGCAGATACAAGAGATCAAGCCGATGGGAGCAGAGCATCTGTGGATTCCGGCAGCTCT
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 CAGGACAGACATTAGCATGTGACTTCGAGAAGTCCAGGGAATTTGGAGCCAATGACAACATGGGAGCC
 TCTTCGATCACTCAGGAGACATCCCTCGGAGGAAAAGAAGTGTGTTGCCACCACTGAGAGCACCCAG
 AGACCAAAGAACCAAGAAGGCAAAAAGGTATCCAAGGAGGAAGCCGAGATGGCCTACAAGACTTCT
 GCTCCAGTCCAGCACCGTGGCCCGGAGGCCAGGACGGCCCCAGGAAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG212006 representing NM_002644
Red=Cloning site Green=Tags(s)

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MLLFVLTCLLAVFPAISTKSPIFGPEEVNSVEGNSVSITCYPPTSVNRHTRKYWCRQGARGGCITLISS
EGYVSSKYAGRANLTFNPENGTFFVNIQQLSQDDSGRYKCGLGINSRGLSFDVLSLEVSQGPGLLNDTKVY
TVDLGRVTINC PFKTE NAQKRKSLYKQIGLYPVLVIDSSGYVNPNTGRIRLDIQGTGQLLFSVINQL
RLSDAGQYL CQAGDSDNSNKKNADLQVLKPEPELVYEDLRGSVTFHCALGPEVANVAKFLCRQSSGENCD
VVVNTL GKRAPAFEGRILLNPQDKDGSFSVVITGLRKEDAGRYLCGAHSDGQLQEGSPIQAWQLFVNEES
TIPRSP TVVKG VAGGSVA VLCPYNR KESKSIKYWCLWEGAQNGRCP LLDVSEGWVKAQYEGRLS LLEEPG
NGTFTVILNQLTSRDAGFYWCLTNGDTLWRTTVEIKIIEGEPNLKVPGNVTAVLGETLKVPCHPCKFSS
YEKYWCKWNNTGCQALPSQDEGPSKAFVNCDENSRLVSLTLNLVTRADEGWYCGVKQGHFYGETAAVYV
AVEERKAAGSRDVS LAKADAAPDEKVLDSGFREIENKAIQDPRLFAEEKAVADTRDQADGSRASVDSGSS
EEQGGSSRALVSTLVPLGLVLAVGAVAVGVARARHRKNVDRVSI RSYRTDISMSDFENSREFGANDNMGA
SSITQETSLGGKEEFVATTESTTETKEPKKAKRSSKEEAEMAYKDFLLQSSTVAEA AQDGPQEA
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002644

ORF Size: 2292 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_002644.4](#)

RefSeq Size: 4266 bp

RefSeq ORF: 2295 bp

Locus ID: 5284

UniProt ID: [P01833](#)

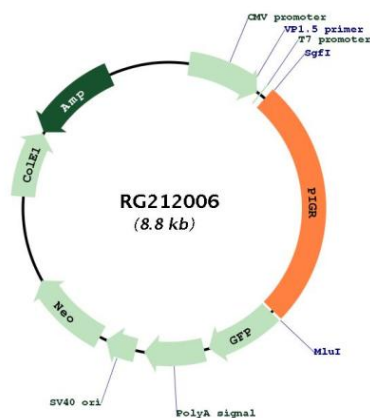
Cytogenetics: 1q32.1

Domains: ig, IGv, IG

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Gene Summary: This gene is a member of the immunoglobulin superfamily. The encoded poly-Ig receptor binds polymeric immunoglobulin molecules at the basolateral surface of epithelial cells; the complex is then transported across the cell to be secreted at the apical surface. A significant association was found between immunoglobulin A nephropathy and several SNPs in this gene.[provided by RefSeq, Sep 2009]

Product images:



Circular map for RG212006