

Product datasheet for **RG200118**

RAI3 (GPCR5A) (NM_003979) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAI3 (GPCR5A) (NM_003979) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RAI3
Synonyms:	GPCR5A; PEIG-1; RAI3; RAIG1; TIG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200118 representing NM_003979 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTACAACAGTCCCTGATGGTTGCCGAATGGCCTGAAATCCAAGTACTACAGACTTTGTGATAAGG
CTGAAGCTTGGGCATCGTCTAGAAACGGTGGCCACAGCTGGGGTTGTGACCTCGGTGGCCTTCATGCT
CACTCTCCCGATCCTCGTCTGCAAGGTGCAGGACTCCAACAGGCGAAAAATGCTGCCTACTCAGTTTCTC
TTCTCTGGGTGTGTTGGGCATCTTTGGCCTCACCTTCGCTTCATCATCGACTGGACGGGAGCACAG
GGCCACACGCTTCTTCTCTTTGGGATCTCTTTCCATCTGCTTCTCCTGCCTGCTGGCTCATGCTGT
CAGTCTGACCAAGCTCGTCCGGGGAGGAAGCCCCCTTTCCTGTTGGTGATTCTGGGTCTGGCCGTGGGC
TTCAGCCTAGTCCAGGATGTTATCGCTATTGAATATATTGCTGACCATGAATAGGACCAACGTC AATG
TCTTTTCTGAGCTTTCGCTCCTCGTCGCAATGAAGACTTTGTCTCCTGCTCACCTACGCTCCTCTTCTT
GATGGCGCTGACCTTCTCATGCTCCTCCTCACCTTCTGTGGTTCCTTACGGGCTGGAAGAGACATGGG
GCCACATCTACCTCACGATGCTCCTCCTCATTGCCATCTGGGTGGCCTGGATCACCTGCTCATGCTTC
CTGACTTTGACCGCAGGTGGGATGACACCATCCTCAGTCCGCTTGGCTGCCAATGGCTGGGTGTTCTC
GTTGGCTTATGTTAGTCCCGAGTTTGGCTGCTCACAAGCAACGAAACCCCATGGATTATCCTGTTGAG
GATGCTTTGTAAACCTCAACTCGTGAAGAAGAGCTATGGTGTGGAGAACAGAGCCTACTCTCAAGAGG
AAATCACTCAAGTTTTGAAGAGACAGGGGACAGCTCTATGCCCTTATCCACACATTTTCAGCTGCA
GAACCAGCTCCCAAAAAGGAATTCTCCATCCACGGGCCACGCTTGGCCGAGCCCTTACAAAGACTAT
GAAGTAAAGAAAGAGGGCAGC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG200118 representing NM_003979
 Red=Cloning site Green=Tags(s)

MATTVPDGCNRNGLKSKYRRLCDKAEAWGIVLETVATAGVVTSVAFMLTLPILVCKVQDSNRRKMLPTQFL
 FLLGVLGIFGLTFAFIIGLDGSTGPTRFLLFGILFSICFSCLLAHAVSLTKLVRGRKPLSLLVILGLAVG
 FSLVQDVIAIEYIVLTMNRTNVNVFSELSAPRRNEDFVLLLTYYVFLMALTFMSSFTFCGSFTGWKRHG
 AHIYLTMLLSIAIWWAWITLLMLPDFDRRWDDTILSSALAANGWVFLLAYVSPEFWLLTKQRNPMDYAVE
 DAFCKPQLVKKSYGVENRAYSQEEITQGFEEETGDTLYAPYSTHFQLQNQPQKEFSIPRAHAWPSPYKDY
 EVKKEGS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003979

ORF Size: 1071 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_003979.3](#), [NP_003970.1](#)

RefSeq Size: 2856 bp

RefSeq ORF: 1074 bp

Locus ID: 9052

UniProt ID: [Q8NFI5](#)

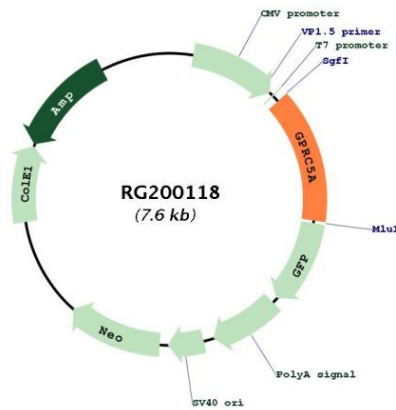
Cytogenetics: 12p13.1

Domains: 7tm_3

Protein Families: Druggable Genome, GPCR, Transmembrane

Gene Summary: This gene encodes a member of the type 3 G protein-coupling receptor family, characterized by the signature 7-transmembrane domain motif. The encoded protein may be involved in interaction between retinoid acid and G protein signalling pathways. Retinoic acid plays a critical role in development, cellular growth, and differentiation. This gene may play a role in embryonic development and epithelial cell differentiation. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG200118