

Product datasheet for **RC200118**

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:	Myc-DDK
Symbol:	GPCR5A
Synonyms:	GPCR5A; PEIG-1; RAI3; RAIG1; TIG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200118 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTACAACAGTCCCTGATGGTTGCCGAATGGCCTGAAATCCAAGTACTACAGACTTTGTGATAAGG
CTGAAGCTTGGGGCATCGTCTAGAAACGGTGGCCACAGCTGGGGTTGTGACCTCGGTGGCCTTCATGCT
CACTCTCCCGATCCTCGTCTGCAAGGTGCAGGACTCCAACAGGCGAAAAATGCTGCCTACTCAGTTTCTC
TTCTCCTGGGTGTGTTGGGCATCTTTGGCCTCACCTTCGCTTCATCATCGACTGGACGGGAGCACAG
GGCCACACGCTTCTTCTCTTTGGGATCCTCTTTCCATCTGCTTCTCCTGCCTGCTGGCTCATGCTGT
CAGTCTGACCAAGCTCGTCCGGGGAGGAAGCCCTTTCCCTGTTGGTGATTCTGGGTCTGGCCGTGGGC
TTCAGCCTAGTCCAGGATGTTATCGCTATTGAATATATTGCTGACCATGAATAGGACCAACGTC AATG
TCTTTTCTGAGCTTTCCGCTCCTCGTCGCAATGAAGACTTTGTCTCCTGCTCACCTACGCTCCTTCTT
GATGGCGCTGACCTTCTCATGTCCTCCTTACCTTCTGTGGTTCCTTACGGGCTGGAAGAGACATGGG
GCCACATCTACCTCACGATGCTCCTCCTCATTGCCATCTGGGTGGCCTGGATCACCTGCTCATGCTTC
CTGACTTTGACCGCAGGTGGGATGACACCATCCTCAGTCCGCTTGGCTGCCAATGGCTGGGTGTTCT
GTTGGCTTATGTTAGTCCCGAGTTTGGCTGCTCACAAGCAACGAAACCCATGGATTATCCTGTTGAG
GATGCTTTCTGTAACCTCAACTCGTGAAGAAGAGCTATGGTGTGGAGAACAGAGCCTACTCTCAAGAGG
AAATCACTCAAGTTTTGAAGAGACAGGGGACAGCTCTATGCCCTTATCCACACATTTTCAGCTGCA
GAACCAGCTCCCAAAAAGGAATTCTCCATCCACGGGCCACGCTTGGCCGAGCCCTTACAAGACTAT
GAAGTAAAGAAAGAGGGCAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200118 protein sequence
 Red=Cloning site Green=Tags(s)

MATTVPDGCNRGLKSKYYRLCDKAEAWGIVLETVATAGVVTSVAFMLTLPILVCKVQDSNRRKMLPTQFL
 FLLGVLGIFGLTFAFIIGLDGSGPTRFFLFGILFSICFSCLLAHAVSLTKLVRGRKPLSLLVILGLAVG
 FSLVQDVIAIEYIVLTMNRTNVNVFSELSAPRRNEDFVLLLTYYVFLMALTFMSSFTFCGSFTGWRKHG
 AHIYLTMLLSIAIWWAWITLLMLPDFDRRWDDTILSSALAANGWVFLAYVSPEFWLLTKQRNPMDYAVE
 DAFCKPQLVKKSYGVENRAYSQEEITQGFEETGDTLYAPYSTHFQLQNQPQKEFSIPRAHAWPSPYKDY
 EVKKEGS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

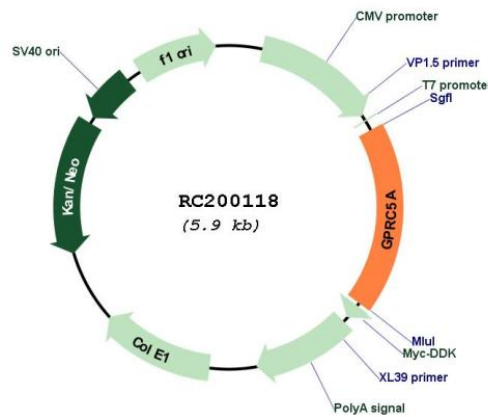
Chromatograms: https://cdn.origene.com/chromatograms/mk6053_f08.zip

Restriction Sites: SgfI-MluI

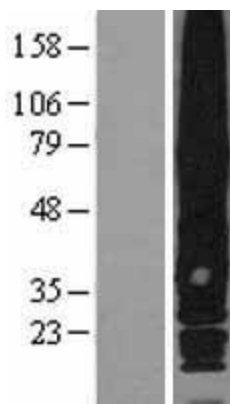
Cloning Scheme:



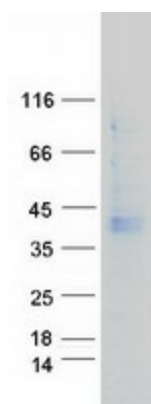
Plasmid Map:



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:	<ol style="list-style-type: none">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_003979.4
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
MW:	40.3 kDa
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:

Western blot validation of overexpression lysate (Cat# [LY401304]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200118 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GPCR5A protein (Cat# [TP300118]). The protein was produced from HEK293T cells transfected with GPCR5A cDNA clone (Cat# RC200118) using MegaTran 2.0 (Cat# [TT210002]).