

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:	RAI3
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
CACTCTCCCGATCCTCGTCTGCAAGGTGCAGGACTCCAACAGGGCAAAAATGCTGCCTACTCAGTTTCTC
TTCTCCTGGGTGTGTTGGGCATCTTTGGCCTCACCTTCGCCTTCATCATCGACTGGACGGGAGCACAG
GGCCACACGCTTCTTCTCTTTGGGATCCTCTTTCCATCTGCTTCTCCTGCCTGCTGGCTCATGCTGT
CAGTCTGACCAAGCTCGTCCGGGGAGGAAGCCCTTTCCCTGTTGGTGATTCTGGGTCTGGCCGTGGGC
TTCAGCCTAGTCCAGGATGTTATCGCTATTGAATATATTGTCCTGACCATGAATAGGACCAACGTC AATG
TCTTTTCTGAGCTTTCCGCTCCTCGTCGCAATGAAGACTTTGTCTCCTGCTCACCTACGTCCTCTTCTT
GATGGCGCTGACCTTCTCATGTCCTCCTTACCTTCTGTGGTTCCTTACGGGCTGGAAGAGACATGGG
GCCACATCTACCTCACGATGCTCCTCCTCATTGCCATCTGGGTGGCCTGGATCACCTGCTCATGCTTC
CTGACTTTGACCGCAGGTGGGATGACACCATCCTCAGTCCGCCTTGGCTGCCAATGGCTGGGTGTTCTC
GTTGGCTTATGTTAGTCCCGAGTTTTGGCTGCTCACAAGCAACGAAACCCCATGGATTATCCTGTTGAG
GATGCTTTCTGTAACCTCAACTCGTGAAGAAGAGCTATGGTGTGGAGAACAGAGCCTACTCTCAAGAGG
AAATCACTCAAGTTTTGAAGAGACAGGGGACAGCTCTATGCCCTTATCCACACATTTTCAGCTGCA
GAACCAGCTCCCAAAAAGGAATTCTCCATCCACGGGCCACGCTTGGCCGAGCCCTTACAAGACTAT
GAAGTAAAGAAAGAGGGCAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_003979.4](#)

RefSeq Size: 2856 bp

RefSeq ORF: 1074 bp

Locus ID: 9052

UniProt ID: [Q8NFJ5](#)

Cytogenetics: 12p13.1

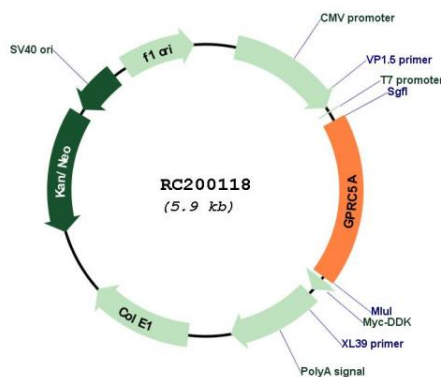
Domains: 7tm_3

Protein Families: Druggable Genome, GPCR, Transmembrane

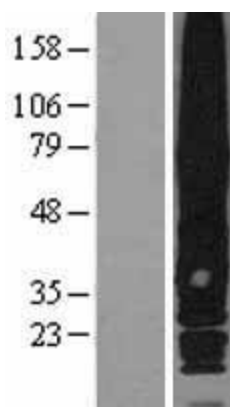
MW: 40.3 kDa

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]

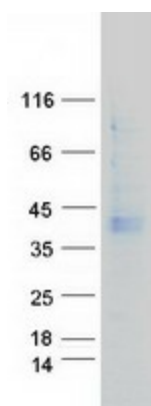
Product images:



Circular map for RC200118



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]).