

Product datasheet for **SC117639**

RAI3 (GPCR5A) (NM_003979) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAI3 (GPCR5A) (NM_003979) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAI3
Synonyms:	GPCR5A; PEIG-1; RAI3; RAIG1; TIG1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117639 sequence for NM_003979 edited (data generated by NextGen Sequencing)

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ATGGCTACAACAGTCCCTGATGGTTGCCGCAATGGCCTGAAATCCAAGTACTACAGACTT
TGTGATAAGGCTGAAGCTTGGGGCATCGTCCTAGAAACGGTGGCCACAGCCGGGTTGTG
ACCTCGGTGGCCTTCATGCTCACTCTCCCGATCCTCGTCTGCAAGGTGCAGGACTCCAAC
AGGCGAAAAATGCTGCCTACTCAGTTTCTCTTCTCCTGGGTGTGTTGGGCATCTTTGGC
CTCACCTTCGCCTTCATCATCGGACTGGACGGGAGCACAGGGCCACACGCTTCTTCTC
TTTGGGATCCTCTTTCCATCTGCTTCTCCTGCCTGCTGGCTCATGCTGTCAGTCTGACC
AAGCTCGTCCGGGGGAGGAAGCCCCTTCCCTGTTGGTGATTCTGGGTCTGGCCGTGGG
TTCAGCCTAGTCCAGGATGTTATCGCTATTGAATATATTGCTCCTGACCATGAATAGGACC
AACGTC AATGTCTTTTCTGAGCTTTCGGCTCCTCGTCGCAATGAAGACTTTGCTCCTCTG
CTCACCTACGTCTCTTCTTATGATGGCGCTGACCTTCCTCATGCTCCTTACCTTCTGT
GGTTCTTACAGGGCTGGAAGAGACATGGGGCCACATCTACCTCACGATGCTCCTCTCC
ATTGCCATCTGGGTGGCCTGGATCACCCCTGCTCATGCTTCTGACTTTGACCCGAGGTGG
GATGACACCATCCTCAGCTCCGCCTTGGCTGCCAATGGCTGGGTGTTCTGTTGGCTTAT
GTTAGTCCCGAGTTTGGCTGCTCACAAGCAACGAAACCCATGGATTATCCTGTTGAG
GATGCTTCTGTAAACCTCAACTCGTGAAGAAGAGCTATGGTGTGGAGAACAGAGCCTAC
TCTCAAGAGGAAATCACTCAAGGTTTTGAAGAGACAGGGGACACGCTCTATGCCCCCTAT
TCCACACATTTTCAGCTGCAGAACCAGCCTCCCCAAAAGGAATTCTCCATCCCACGGGCC
CACGCTTGGCCGAGCCCTTACAAAGACTATGAAGTAAAGAAAGAGGGCAGCTAA

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Clone variation with respect to NM_003979.3



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003979 unedited
 ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCCAGCACTGAGGAGCTCGC
 CTGCTGCCCTCTTGCGCGCGGGAAGCAGCACCAAGTTCACGGCCAACGCCTTGGCACTAG
 GGTCCAGAATGGCTACAACAGTCCCTGATGGTTGCCGCAATGGCCTGAAATCCAAGTACT
 ACAGACTTTGTGATAAAGGCTGAAGCTTGGGGCATCGTCTAGAAACGGTGGCCACAGCCG
 GGGTTGTGACCTCGTGGCCTTCATGCTCACTCTCCCGATCCTCGTCTGCAAGGTGCAGG
 ACTCCAACAGGGCAAAAATGCTGCCTACTCAGTTTCTCTTCTCCTGGGTGTGTTGGGCA
 TCTTTGGCTCACCTTCGCCTTCATCATCGGACTGGACGGGAGCACAGGGCCACACGCT
 TCTTCTCTTTGGGATCCTCTTTTCCATCTGCTTCTCCTGCCTGCTGGCTCATGTGTCA
 GTCTGACCAAGCTCGTCCGGNGGAGGAAGCCCCTTCCCTGTTGGTGATTCTGGGTCTGG
 CCGTGGGCTTACGCTAGTCCAGGATGTTATCGCTATTGATATATTGTCCTGACCATGAA
 TAGGACCAACGTCAATGTCTTTTCTGAGCTTCCGCTCCTCGTCGCAATGAAGACTTTGT
 CCTCTGCTCACCTACGTNCTCTTCTTGATGGCGCTGACCTTCTCATGCTCCTCCTCAC
 CTTCTGTGNTCCTTACCGCTGGAAGAACATGGGGCCACATTTACTNACGATGCNTCCC
 TCATTGCATCTGGTGGCCTGGACACCCTGCTATGCTTCTGACTTGACCGCAGTGGATGAC
 CCATCTCANCTCGCTTGGTGCATGGCTGGGGTCTGTTGCTATGTACNCCCAATTTGCT
 GCTACAACAACAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003979 unedited
 ACCATGGAAGTATGGCCACCACATCTTTATTGCATACTCAGGTGAATAACTTATTATACA
 ATGAACACTCCTCCATTAGGAGACCATGCCACTTACAGAATGCAGCCGTAATGCGGTA
 AATCTATTTACAGAGGTTGGGGTCAAGATGAGAGAAGTATCAGCCCCAGGAATTTGAAG
 TGAGAATGATCTACAAATCTCCTGACAAGGAGCAACCGGGCTTGTGCTAGTGAGGTCTG
 AAAGAATTCCTGGCAGAGCGTAGGGGAGATTAGATCTCGGAATTGACAGCAAGTTTGGG
 GACAGTGAAGAAGAGAGGGGTGACCTGTGAATTTGGTGTGGGGAGCTGCTGAGGCCAA
 TGTGAGGCAGCACTAGAGAGATGAGTAAATTTAGGGTGATCTTTAGCCTCTCCTACCCAG
 GCAAGAAAGGTTGGGGAGCGGGGTGCCANCAAGTTGGCTTCCAGTGTAGATTACAGGCCA
 GTGGGCTGAGAGAGGCTTTTGTATTTTGTCTCAGATATGCANGTCTGCTCTGGGCCACA
 GAGCCTCACAAACCCACTGTGAGTTAGAGGAGCAGGCCCTANAGCTGTGTGAGCCAGC
 GTGAGCTCANATGACCAGACCCTTAGTCCATGGAAAATACAGCCAGATTAGGGCCTANGC
 TGGGAGCTGTGGCTCACGCCTGTATCCCAACACTTTGGGAGATGGAGATGGGAAGTATG
 CTTTGACCCAGGTGTTAAGGGTGCACCTGGGCTGGATCCGCCCTGGCCTTAACCTGTT
 GACAGACAAGATCCTGTTTAAAAAACAACAAAAGATTAGGGCTTAACTTGGTTGCCTTG
 GCCTCCACTTAAAGAATCCTCCAGGGTTGACCCCAACAAAAAATCTCCCGCTCTTAAA
 CGCGGGGTTTTCTACCCACTTATCCACCTGTGGAAATTCGCGCCCGCTGGAGGGGCAA
 CCGCCCCCTGGTCTCGGACTCTATAAAACATAATACCCACCTTTTGTCCCTTACC
 GCCCGTCTTTTCTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_003979

Insert Size:

2600 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_003979.3 , NP_003970.1
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
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]