

Product datasheet for **SC112926**

RAI2 (NM_021785) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	RAI2
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF within SC112926 sequence for NM_021785 edited (data generated by NextGen Sequencing)

ATGGACGACCTGCAGTCCCAGAACCTCTCCATGGACATGACTGACTCCCCCTCTGCCTTG
GCTAATAACAGACTGGAGAATGGCATGGCTCAGCTGATCACCACCGAGGCCTGGAACATC
AACTCCACTGACCTGGTAAAGAAGGCCCTGGTGACCGTCCAGCCCCATCCATTCTGAAC
CCCCCTGCCGAGTCTCAGAGTGGCATGGCTCTGAAGGTGGCGGCCACTGTGTTGCAGCCC
CTGTGCCTCGGGGAGAGCCAGTGGTGATGCCATTACATGCAGGTGGAGGGAAGCTCC
GCACCAGAGCTCAATCCGAATGGCAATGCCACCTACGTGATGACCACCCAGGGCCCCGTG
CAACTGCCCGTGGTGCTGGAGCAGCACGTCTTTCAGCACCTCAACTCCCCCTCTGGTCTCG
CCGAGGAGGCCCATGCTCTCCAGTACCATCCACAACAACCTCTTCCAGGGAGCGGAG
GACCCCGAGGCCAGCCCCAGCTCCTGGACCTGAGGATCCCCAGCCAGCCGAGGAGGCC
ACTTTGCCATTTGAAGCTGTGCTCCAGAATTTGTTTCCCTCCAGGGCACTCTCGGGCCC
CCACCTGTGAGCCTCCTCTGGCTATGCCCTGTGCCCCACAGCCTTTAGCTCCCCC
TTGTCCCCCTGGTCCCAGCCACCTCTTGGTGCCGTATCCTGTAATCGTCCCCTTG
CCTGTGCCAGTCCCTATTTCCATCCCCATCCCGTGCCTCAGAGTTCTGAATCCAAGTTC
AGCTCCAGTTTCCCAAGCCACCATCTTCTTCGGCCTGCACCCCTTTAAAGGCACCCAG
ACCCCTCTGGAAAAAGATGAACTGAAGCCCTTTGACATCCTCCAGCCTAAGGAGTACTTC
CAGCTCAGCCGCCACACGGTCATTAAGATGGGAAGTGAGAAGAGGCCCTGGATCTCTCC
ATGAAGTCAGTGCCTGGCTCAAGGCTGGTGAAGTCAGTCCCCCAATCTTCCAGGAAGAT
GCAGCCCTAGACCTGTGAGTGGCAGCCACCGGAAATCCGAGCCTCCCCCTGAGACACTG
TATGACAGTGGTGATCAGTGGACAGCTCAGGTACACAGTGATGGAGAACTTCCAGT
GGCATGGAAATTTCTTTTGGCCCTGCCACGTCCCATGAGGCCCCAGCCATGATGGATAGT
CACATCAGCAGCAGTGATGCTGCTACCGAGATGCTCAGCCAGCCCAACCAACCCAGCGGC
GAAGTCAAGGCTGAAAATAACATTGAGATGGTGGGCGAGTCCAGGCGGCCAAGGTCAAT
GTCTCTGTGCAAGATGCTGTGCCTACCATATTCTGTGGCAAGATCAAAGGCCTCTCAGGG
GTGTCCACCAAAAACCTTCTCTTCAAAAGAGAAGACTCCGTGCTTCAGGGCTATGACATC
AACAGCCAAGGGGAAGAGTCCATGGGAAATGCAGAGCCCTTAGGAAACCCATCAAAAAC
CGGAGCATAAAGTTAAAGAAAGTGAACCTCCAGGAAATACACATGCTCCCAATCAAAAAA
CAACGGCTGGCCACCTTTTTTCCAAGAAAGTAA

Clone variation with respect to NM_021785.4

5' Read Nucleotide

Sequence:

>OriGene 5' read for NM_021785 unedited

GTCAAATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGCCGGGGACTG
CCGGGGAGGGCGGCCGCCGGCGGGGGGGGGCCCGAAGTGGGTTTCGGGCCGCGGCC
CGCACTGGCATCGGGCGCAGAGGGCGGTGCACGGCGGACTCCGCGCCAGGCACCGCACC
GGGCAGTCTCCGGATCTGCCGTTCTGCCCCGGCCCGGAAAACCCGGCGCCTTCCAGGCC
TTCGAAAGATGGATTCTGTTGACGTATCTGGCGGCCCTGGCGAGCCTGGTGAAAGTTGG
GTTTTGCCAGATTGCGCCGGGCTCCTTTGTGACGCGCGGCCAGCCCCGCATCCCCCCC
GGAGCCGGGCCAAGTGGCATCAGAGCTGAGTGATGGACGACCTGCAGTCCCAGAACCTCT
CCATGGACATGACTGACTCCCCCTCCTGCCTTGGCTAATAACAGACTGGAGAATGGCATGG
CTCAGCTGATCACCACCGAGGCCTGGAACATCAACTCCAAGTGGTAAAGAAGGCC
TGGTGACCGTGGCAGCCCCATCCATTCTGAACCCCTGCCGAGTCTCAGAGTGGCATGG
CTCTGAAGTGGCGGCCACTGTGTTGCAGCCCCGTGCCTCGGGGAGAGCCAGTGGTGA
TGCCCATTCACATGCAGGTGGAGGGAAGTCCGCACCAAGAGCTCAATCCGAATGGCAATG
CCACCTACGTGATGACCACCCAGGGCCCCGTGCAACTGCCCGTGGGTGCTGGAGCAGCAC
GTCTTTCAGCACCTCAACTCCNCTCTGGTNCCTGCCGAGGAGGGCCCATGCTCCTNCACT
ACATNCACACAACCTCTTNCAGGGAGCGAGACCCGAGCCANCCAGCTCTGACCTGAG
ATCCCAGCAGCGCAGGCCACTTGCAATTGAAGCGGCCANAAAATTGTTCTCGGNNCTTTT
AGCCCCACCTC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_021785 unedited <pre> NCGTATACTAGNACCGCGCCGAATCTANGATCGATTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTAGGGCAAACAAACATTTATTGGGAATATTCATCCCACCTTT ATTAGGTATTACATCATCAAAGCACTTTGGGGCAATGAAATAGCTTTTTTACCCTCT AATTCACCCAATATTCCATTAAAGCTGCAAAAAATGTGCAATCTGCTTGAAAAATAGGTT GCTCTTATTACCATTTGGGAAAAGTCAAAAATTAAGAAAGAAATGATACTAGCATAC AGGGCCTCTAGAGCCAATTCACCTTTCCATTTCCCACTACTCCCCAAAATAATTAACAA AGATAATTTGTTTTAAATGCCTTTTATAAAACCAATGCACCTTTCCCATATTATAATC ATACAAATTTTAAAAAGCGTTATTTACTTTCTTGGAAGGAGGGGCCAGCCGTTGTTT TTTGATTGGGAGCATGTGATTTCTGGGAGTTCACCTTTCTTAACTTTATGCCCGGTT TTTGATGGGTTTCTAAGGGCTCTGCATTTCCCATGGACTTTCCCTTGGCTGTTGAT GTCATAACCCCTGAAGCACGGAGTCTTCTCTTTGAAGGAAAAGTTTTGGTGGACACCCC TGAGAGGCCTTTGATCTTGCCACAGAATATGGTAGGCACAGCATCTCGACAGAAACAAT GACCTTGCCCGCTGGGACTCGCCACCATCTCAATGTTATTTTCAGCCTTGACTTCNCC GCTGGGGTGGTTTGGGCTGGCTGAACAACCTCGGTAGCAGCTCACTGCTGCTGATGTGCTA TCCTCATGGCTGGGGCCCCATGGGACGTGGCACGGGGCCAAAAAATTCAGGCCCTG GGAAGTTTCCCTA </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_021785
Insert Size:	2500 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_021785.2 , NP_068557.1
RefSeq Size:	2338 bp
RefSeq ORF:	1593 bp
Locus ID:	10742

UniProt ID: Q9Y5P3

Cytogenetics: Xp22.13

Gene Summary: Retinoic acid plays a critical role in development, cellular growth, and differentiation. The specific function of this retinoic acid-induced gene has not yet been determined but it may play a role in development. The chromosomal location of this gene designates it to be a candidate for diseases such as Nance-Horan syndrome, sensorineural deafness, non-specific X-linked cognitive disability, oral-facial-digital syndrome, and Fried syndrome. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]
 Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 3 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.