

Product datasheet for **RN212672**

Rai14 (NM_001011947) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rai14 (NM_001011947) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rai14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN212672 representing NM_001011947
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGAGCCTGAAAGCGAAGTTTAGGAAGAGCGACACGAACGAGTGGAAACAAGAATGATGACCCGCTGC
 TGCAGGCTGTGGAGAATGGAGATGCTGAGAAGGTGGCCTCACTGCTGGGCAAGAAAGGGGCCAGTGCCAC
 CAAGCATGACAGCGAGGGCAAGACCGCTTTCCACCTTGCTGCTGCAAAAAGGACACGTGGAAATGCCTCAAG
 GTCATGGTTACACACGGTGTGGATGTGACTGCCAAGACTCTTCCGGTACAGTGCTTTACATATCGCAG
 CCAAGAATGGCCACCCAGAGTACATCAAGAAGCTTCTTCACTACAAGAGCCAGCCGAAAGTGTGACAA
 CTTGGGAAAACAGCTTTGCATTATGCAGCGGCACAGGGGAGCCTTCAAGCTGTACAAGTCTCTGCGAA
 CACAAGAGCCCATAAACCTCAAAGACTTGGATGGGAACATACCCCTGCTCGCAATACAAAATGGCC
 ACAGTGAGGCCGCCACTTTCTCTGGACCATGGCGCAGATGTCAATTCAGGGACAAAAATGGAAGAAC
 TGCTCTCATGCTGGCGTGCAGAACTGGCAGTGCTAACACTGTGGAAGCCTTAATTAAGGGGGGAGAGC
 CTGAACCTTGTAGATTCTTGGACACAATGCCTTATATTATTCCAAACTCTCAGAAAAATGCAGGAATTC
 AGAGCCTTCTATTATCAAAAATCTCTCAGGATGCTGATTTAAAGACCCCAACAAAAGCAAAGCAGTTGAG
 TGATGTGCTTCCCCACGATCAATAACTTCTACACCCTTTCAGGAAAGGAATCAGTATTTTTGCTGAA
 GCACCTTTAAGGCTGAGATCAGCTCCATACAAGAAAACAAAGACAGGCTGAGCGACAGTACTGCAGGTG
 CTGACAGCTTATTAGATGTAAGTTCTGAAGCTGACCAACAAGTCTTCTGTCTATTGCAAGCAAAAAGT
 CGTTCCCTTACCTTACACAATAAGGAGTTACAAGATAAATTGCAGGCCAAATCACCCAAGGAAACTGAA
 GCCGACCTAAGCTTTTCACTTTCCATTCACCCAGACTGACCTAGCCCCATCCCGAGCAAACTAGTG
 ACATCCCTTCCCGATGCCAAATCATCCCCGCTGTTGAACATCCGGCGGGGACATCCACCGCTGACAG
 GGATGTGATAATCCAGCAGCTACAAGATACCTTGCATGATTTGCAGAAGAGATTGGAGACCTCTGAAGCA
 GAGAAGAAACAGCTCCAGGACGAACTCCAGTCAAAAAGGACAGACACGACATGCTTGAACAACACAGAGA
 TTTCCGAAAATGGCTCCGACCTCAGTCAGAAACTCAAAGACACTCAGAGCAAGTACGAAGAGGCCATGAA
 AGAAGTCTGAGCGTGCAGAAGCAGATGAAGCTGGGTCTCTCTCCACGAGAGTGCCGATGGCGACTCG
 CGTCTCCGAGAGGTGAGGGTCACTGATGAAGACGTTGACGCACTAAAGCAAGACCTGCAGAGAGCACTGG
 AAGAGAGTAAAAGGGACAAGGCACGGTGCAGGAGTTAGAGACAAAGCTCGTGGAGAAAAGAAAGGCTGA
 AGCGACTAAGCCGCTCCTCAGAGGTGTGCGAGGAGATGAGAACTCCTACTGCTGTGTCATCGAGAATATG
 AATAAGGAGAAGGCATTTTTGTTGAGAAATACCAGCAGGCCAAGAAGAAATCATGAACTAAAGGACA
 CACTAAAAGTCAAGTGCACAGGAAGCCCGATGACTCTGGGGACATGAAAGAGACCATGAACAGGAT
 GGTTGACGAGCTCAATAAGCAGGTGAGCGAGCTGTACAGCTCTACAGAGAAGCCAGGCAGAGCTGGAG
 GATTACAGGAAGGAAGTCTCTAGAAGACGCAACCGAATACATTACAGAGCGGAACACGAGAGGCTGA
 TGCACCTGTCAAACCTGTCCAGGACCAAAGCGGAAGAATCGCTGTCCGACATGAGGTCTCAATATCCAA
 GGTGCTGAACGAGTTGACTCAGCTCAAGCAGCTGGTGGATGCGCACAAGAGAAGTCCGTGTCCATCACA
 GAGCATCTGGAAGTAATAACCACGCTGCGGACGATGGCCAAAGAGATGGAAGAGAAAACAGTCAACCTCC
 AAGAGCACCTCGCAAGCAAGGAAGGGGAAGTCGAAAGCTGGAGAAGCAGCTCGCAGAGGAGAAAAGCCGC
 CATGAGCGACGCAATGGTCCCAAGGCTTCTACGAGAAGCTCCAGGCCTCCCTGGAGAGCGAAGTCAAC
 GCGTTGGCAGCAAAGTTAAAGGAGTCCGTGAAAGAGAAAAGAGAAAAGCCATTCTGAGGTGCGCCAGGTT
 GAAGTGAGGTCTCGCAGGCGAAAAGGGAAAAGAAAACATCCAGACTCTTGAATCCAAAGAGCAGGA
 AGTAACTGAACTTGTGCAGAAATTCAGCGAGCTCAGGAAGAACTGGCCGGGTTGAAAAGATGCTCTGAG
 ACCTCGTGAAGCTGGAGGAGGACAAAGACGAAAAGATAAATGAAATGACCAAGGAGGTCTGAAGCTGA
 AGGAGGCCCTGAACAGCTCTCGCAGCTCTCATACTCCACAAGCTCGTCAAGAGGCAGACCCAGCAACT
 GGAAATGCTACAGCAGCAGGTCAAGCAGCTGCAGAACAGCTGGCTGAATGTAAGAAAACAACACCAGGAG
 GTCGTATCCGTTTACAGAATGCATCTTCTATATGCTGTACAGGGCCAAATGGATGAAGATGTCCAGAAAG
 TCTTGAAGCAGATCCTCACCATGTGTA AAAACAGTCTCAGAAGAAG**TAA**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN:	NM_001011947
Insert Size:	2850 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:	<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:	<u>NM_001011947.1</u> , <u>NP_001011947.1</u>
RefSeq Size:	4654 bp
RefSeq ORF:	2850 bp
Locus ID:	294804
UniProt ID:	<u>Q5U312</u>
Cytogenetics:	2q16
Gene Summary:	Plays a role in actin regulation at the ectoplasmic specialization, a type of cell junction specific to testis. Important for establishment of sperm polarity and normal spermatid adhesion. May also promote integrity of Sertoli cell tight junctions at the blood-testis barrier. [UniProtKB/Swiss-Prot Function]