

Product datasheet for **SC322437**

RPIA (NM_144563) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RPIA (NM_144563) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPIA
Synonyms:	RPI; RPIAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322437
 GCGAGGCGTCGGGATGCAGCGCCCCGGGCCCTTCAGCACCTCTACGGGCGGGTCTTGGC
 CCCGCTGCCCGGGAGGGCCGGGGCGCGGCCTCCGGCGGAGGAGGGAACAGCTGGGACCT
 CCCGGTCCCACGTGCGGCTGCCGGGGCGTGACAGTCTGGGACCCGTGGCGGTGCTGG
 CAACACAAGCACCAGCTGCGGGGACTCCAACAGCATCTGCCCGGCCCTCCACGATGTC
 CAAGCCGAGGAGGCCAAGAAGCTGGCGGGCCGCGCGGTGTGGAGAACCAGTGAGGAA
 TAACCAAGTGTGGGAATTGGAAGTGGTTCTACAATTGCCATGCTGTGCAGCGAATAGC
 TGAAGGGTGAAGCAAGAGAATCTGAACCTCGTCTGTATCCCCTTCCAGGCCCG
 CCAGCTCATCCTGCAGTATGGCTTGACCCTCAGTGATCTGGATCGACACCCAGAGATCGA
 CCTTGCCATCGATGGTGTGATGAAGTAGATGCTGATCTCAATCTCATCAAGGTGGCGG
 AGGCTGCCTGACCAGGAGAAGATTGTGGCTGGCTATGCTAGTCGCTTCATCGTATCGC
 TGATTTCCAGAAAGATTCGAAGAATCTCGGGGATCAGTGGCACAAGGGAATCCCCATCGA
 GGTATCCCAATGGCCTATGTCCAGTGAGCCGAGCTGTGAGCCAGAAGTTTGGGGCGT
 GGTGAACTTCGAATGGCTGTCAACAAGGCTGGTCTGTGGTACAGATAATGGGAATTT
 TATCTTGGACTGGAAGTTTGACCGGTACACAAATGGAGTGAAGTGAATACAGCTATCAA
 AATGATCCAGGTGTGGTGGACACAGGCCTATTTCATCAACATGGCTGAGAGAGTCTACTT
 TGGGATGCAGGATGGCTCAGTGAACATGAGGGAGAAGCCTTTCTGTTGACCTGCAAGGA
 GCAGAGTGTTCACCTTGAGTCTCCAGCCACAGCCAAGGTGGACGTACCTCTCCAGGA
 GCCTTTGCCTTAATGTATCTCTGCTGGACAACCTGTGGTGGGGGTGGGGGAAGAGTG
 GGAGGGGAGTTAAATCCAGTCTTATGAAGTATTGTTATTAATGTCTTTTTAAAAAGAG
 AAATATAAACATATTTTTACTATTAATAATTCAGTTTTTAAATGAAGTAGAACTTG
 AGTTCATGTTTTATGAAATATTTACCAAAAAAAAAAATGAGGTAACTGTATTTAAA
 ACCTTTGACTTGAGTCTGCTGGTAAAGCTTCTGAATATTGAGTTTGTGAGAAATAAAA
 TCAAAACTTCTTTAAGCTGGTAAAGTGAGGGGCCACCAGCAGTATCTCCTGATGCCTT
 ACTGAAAACCTTTGTTACTTGTCTGCTACCCTCTGATTTGTTTTAGTTAGTTTTATTG
 TGAGCACACATAGTACCTAGTTACATCTTAAGATCAGGTGATAAAACTGTGGAGTGGAG
 CGGTATGGTATGGAATGACTTGAATGTAAGCTGTGAGGAGAAAATGTTGTACTACTTT
 TGCTAAGATCTGGGGTTTCTTCATATTCCTGCTGTTGGAAGCAGTTGACCAGAAATGCT
 TGCCAGTACTGCCAAAGCACTGCTGTGAAATGTGAAGTACTTTGTTTTTTATTTTTAAT
 GATTTTCTTTTTGTTATTAATATTTTTCTCTGTTCTTTGTTATTAATGTCATGGTTGG
 CGTCAGAAAGTCTTACCTCTTTATATTGTTGCAGGTTTAAATAAACAGTGTGGTGCCA
 AAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_144563

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.

RefSeq: [NM_144563.2](#), [NP_653164.2](#)

RefSeq Size: 1834 bp

RefSeq ORF: 936 bp

Locus ID: 22934

UniProt ID: [P49247](#)

Cytogenetics: 2p11.2

Protein Pathways: Metabolic pathways, Pentose phosphate pathway

Gene Summary: The protein encoded by this gene is an enzyme, which catalyzes the reversible conversion between ribose-5-phosphate and ribulose-5-phosphate in the pentose-phosphate pathway. This gene is highly conserved in most organisms. The enzyme plays an essential role in the carbohydrate metabolism. Mutations in this gene cause ribose 5-phosphate isomerase deficiency. A pseudogene is found on chromosome 18. [provided by RefSeq, Mar 2010]