

Product datasheet for **SC114993**

Rabex5 (RABGEF1) (NM_014504) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rabex5 (RABGEF1) (NM_014504) Human Untagged Clone
Tag:	Tag Free
Symbol:	Rabex5
Synonyms:	rabex-5; RABEX5; RAP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:	>OriGene ORF within SC114993 sequence for NM_014504 edited (data generated by NextGen Sequencing) ATGAGCCTTAAGTCTGAACGCCGAGGAATTCATGTGGATCAATCGGATCTCCTGTGCAAG AAAGGATGTGGTTACTACGGCAACCCCTGCCTGGCAGGGTTTCTGCTCCAAGTGTGGAGG GAAGAGTACCACAAAGCCAGGCAGAAGCAGATTGAGGAGGCTGGGAGCTGGCGGAGCGA CTCCAGCGGGAGGAAGAAGAGGCCTTTGCCAGCAGTCAGAGCAGCAAGGGGCCAATCC CTCACATTCTCCAAGTTTGAAGAAAAGAAAACCAACGAGAAGACCCGCAAGGTTACCACA GTGAAGAAATTCTTCAGTGCATCTTCCAGGGTCGGATCAAAGAAGGAAATTCAGGAAGCA AAAGCTCCAGTCTTCCATAAACCCGGCAAACAGCATTGAAACGGATAGAGTGTCTAAG GAGTTCATAGAATTTCTCAAGACCTTCCACAAGACAGGCCAAGAAATCTATAAACAGACC AAGCTGTTTTTGAAGGAATGCATTACAAAAGGGATCTAAGCATTGAAGAACAGTCAGAG TGTGCTCAGGATTTCTACCACAATGTGGCCGAAAGGATGCAAACTCGTGGGAAAGTGCT CCGAAAGAGTCGAGAAGATAATGGATCAGATTGAAAAGTACATCATGACTCGTCTCTAT AAATATGTATTCTGTCCAGAACTACTGATGATGAGAAGAAAGATCTTGCCATTCAAAG AGAATCAGAGCCCTGCGCTGGGTTACGCCTCAGATGCTGTGTGCTCCTGTTAATGAAGAC ATCCCAGAAAGTGTCTGATATGGTGGTGAAGGCGATCACAGATATCATTGAAATGGATTCC AAGCGTGTGCCTCGAGACAAGCTGGCCTGCATCACCAGTGCAGCAAGCACATCTTCAAT GCCATCAAGATCACCAGAATGAGCCGGCGTCAGCGGATGACTTCCTCCCAACCTCATC TACATTGTTTTGAAGGGCAACCCCCACGCCTTCACTAATATCCAGTATATCACGCGC TTCTGCAATCCAAGCCGACTGATGACTGGAGAGGATGGCTACTATTTACCAATCTGTGC TGTGCTGTGGCTTTCATTGAGAAGCTAGACGCCAGTCTTTGAATCTAAGTCAGGAGGAT TTTGATCGCTACATGTCTGGCCAGACCTCTCCAGGAAGCAAGAAGCTGAGAGTTGGTCT CCTGATGCTTGTCTAGGCGTCAAGCAAAATGTATAAGAACTTGGATCTCTGTCTCAGTTG AATGAACGACAAGAAAGGATCATGAATGAAGCCAAGAACTGGAAGAAAGACCTCATAGAT TGGACAGATGGAATTGCAAGAGAAGTTCAAGACATCGTTGAGAAATACCCACTGGAAT AAGCCTCCGAATCAACCGTTAGCAGCTATTGACTCTGAAAACGTTGAAAATGATAAACT CCTCCACCACTGCAACCTCAAGTTTATGCAGGATGA Clone variation with respect to NM_014504.2
5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014504 unedited GTTCAGGAATTTGTAATACGACTCACTATAGGGCGGCCGCGCATTCGGCACGAGGCTGGC CGCGGAGCCCAGACCTACCCGGGCGAAGCGGGCGAGCGGTGGTTTGGACGCCGGCGGAGA CGCGGGCGAGTGGTTAGCAGGAAGAAGATGAGCCTTAAGTCTGAACGCCGAGGAATTCAT GTGGATCAATCGGATCTCCTGTGCAAGAAAGGATGTGGTTACTACGGCAACCCCTGCCTGG CAGGGTTTCTGCTCCAAGTGTCTGGAGGGAAGAGTACCACAAAGCCAGGCAGAAGCAGATT CAGGAGGACTGGGAGCTGGCGGAGCGACTCCAGCGGGAGGAAGAAGAGGCCTTTGCCAGC AGTCAGAGCAGCCAAGGGGCCCAATCCCTCACATTCTCCAAGTTTGAAGAAAAGAAAACC AACGAGAAGACCCGCAAGGTTACCACAGTGAAGAAATTTTCAGTGCATCTTCCAGGGTC GGATCAAAGAAGGAAATTCAGGAAGCAAAAGCTCCAGTCCTTCCATAAACCCGGCAAACC AGCATTGAAACGGATAGAGTGTCTAAGGAGTTCATAGAATTTCTCAAGACCTTCCACAAG ACAGGCCAAGAAATCTATAAACAGACCAAGCTGTTTTTGAAGGAATGCATTACAAAAGG GATCTAAGCATTGAAGAACAGTCAGAGTGTGCTCAGGATTTCTACCACAATGTGGCCGAA AGGATGCAAACTCGTGGGAAAGTGCCTCCAGAAAGAGTCGAGAAGATAATGGATCAGATT GAAAAGTACATCATGACTCGTCTCTATAATATGATTCTGTCCAGAACCTACTGATGATG AGAAGAAAGATCTTGCCATTCAAAGAGATCAGAGCCCTGCGCTGGGTTACGCCTCAGAT GCTGTGTGTCCTGTTATGAAGACATCCACAAATGTCTGATT
Restriction Sites:	NotI-NotI
ACCN:	NM_014504
Insert Size:	4130 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.
RefSeq:	NM_014504.1 , NP_055319.1
RefSeq Size:	3740 bp
RefSeq ORF:	1476 bp
Locus ID:	27342
UniProt ID:	Q9UJ41
Cytogenetics:	7q11.21
Domains:	zf-A20, VPS9
Gene Summary:	RABGEF1 forms a complex with rabaptin-5 (RABPT5; MIM 603616) that is required for endocytic membrane fusion, and it serves as a specific guanine nucleotide exchange factor (GEF) for RAB5 (RAB5A; MIM 179512) (Horiuchi et al., 1997 [PubMed 9323142]).[supplied by OMIM, Mar 2010] Transcript Variant: This variant (4) contains alternate 5' exon structure and includes an additional internal exon, and it thus differs in its 5' UTR and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (c) is longer at the N-terminus, compared to isoform a. Variants 3, 4, and 9-20 all encode the same isoform (c). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.