

Product datasheet for **SC117288**

Rab4 (RAB4A) (NM_004578) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rab4 (RAB4A) (NM_004578) Human Untagged Clone
Tag:	Tag Free
Symbol:	Rab4
Synonyms:	HRES-1; HRES-1/RAB4; HRES1; RAB4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117288 sequence for NM_004578 edited (data generated by NextGen Sequencing)

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ATGTCGCAGACGGCCATGTCCGAAACCTACGATTTTTTGTAAAGTTCTTGTTATTGGA
AATGCAGGAACTGGCAAATCTTGCTTACTTCATCAGTTTATTGAAAAAATTCAAAGAT
GACTCAAATCATACAATAGGAGTGGAAATTTGGTTCAAAGATAATAAATGTTGGTGGTAAA
TATGTAAAGTTACAAATATGGGATACAGCAGGACAAGAACGATTCAGGTCCGTGACGAGA
AGTTATTACCGAGGCGCGCGGGGCTCTCCTCGTCTATGATATCACCAGCCGAGAAACC
TACAATGCGCTTACTAATTGGTTAACAGATGCCCGAATGCTAGCGAGCCAGAACATTGTG
ATCATCCTTTGTGAAACAAGAAGGACCTGGATGCAGATCGTGAAGTTACCTTCTTAGAA
GCCTCCAGATTTGCTCAAGAAAATGAGCTGATGTTTTTGGAAACAAGTGCCTCACAGGG
GAGAATGTAGAAGAGGCTTTTGTACAGTGTCAAGAAAAATACTTAACAAAATCGAATCA
GGTGAGCTGGACCCAGAAAGAATGGGCTCAGGTATTCAGTACGGAGATGCTGCCTTGAGA
CAGCTGAGGTCACCGCGCGCGCACAGGCCCGAACGCTCAGGAGTGTGGTTGTTAG
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Clone variation with respect to NM_004578.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004578 unedited GGGTCACATTTGTATACGACTCCTATAGGGCGGCCGCGATTTCGGCACGAGGGGACGGAGG GTGGAGGGCCCTGCGCCTGCGCGGAGCTGGAGTCCGGCTGGGCCGAGCCGCTGGGAGAC CGGCGGTTGCCGTGGGGACCGGTGCGGCCCTCCCTCCTCCGGTCCCCGCCCCAGGTCC TTCCCCACCGAGACGCGCCGGCGGACCGCGGGCGAGTGCAGCCGGTGACCCGGCGAGAGG CGGCGCCGCTCCCAAGATGTCGAGACGCCATGTCCGAACTACGATTTTTTTGTTAA GTTCTTGGTTATTGAAAATGCAGGAACTGGCAAATCTTGCTTACTTCATCAGTTTTATTGA AAAAAATTCAAAGATGACTCAAATCATACAATAGGAGTGAATTTGGTTCAAAGATAAT AAATGTTGGTGGTAAATATGTAAAGTTACAAATATGGGATACAGCAGGACAAGAACGATT CAGGTCCGTGACGAGAAGTTATTACCGAGGCGCGCCGGGGCTCTCCTCGTCTATGATAT CACCAGCCGAGAAACCTACAATGCGCTTACTAATTGGTTAACAGATGCCCGAATGCTAGC GAGCCAGAACATTGTGATCATCCTTTGTGAAACAAGAAGGACCTGGATGCAGATCGTGA AGTTACCTTCTTAGAAGCCTCCAGATTTGCTCAAGAAAATGAGCTGATTTTTTGGAAAC AAGTGCCTCACAGGGGAGAATGTAGAAGAGGCTTTTGTACAGTGTGCAAGAAAAATACT TAACANAATCGAATCAGGTGAGCTGGACCCAGAAAGATGGGCTCAGGTATTCAGTACGGA GATGCTGCCTTGAGACAGCTGAGGTACCGCGGCCGCGCACAGGCCCCNGNACGCTCAGAG TGTGGNTGNTAGAGACACACCCAACGGTC
Restriction Sites:	NotI-NotI
ACCN:	NM_004578
Insert Size:	2550 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:	NM_004578.2 , NP_004569.2
RefSeq Size:	1861 bp
RefSeq ORF:	657 bp
Locus ID:	5867
UniProt ID:	P20338
Cytogenetics:	1q42.13
Domains:	ras, RAN, RAS, RHO, RAB, ARF
Protein Families:	Druggable Genome

Protein Pathways: Endocytosis

Gene Summary: This gene is a member of the largest group in the Ras superfamily of small GTPases, which regulate membrane trafficking. The encoded protein is associated with early endosomes and is involved in their sorting and recycling. The protein also plays a role in regulating the recycling of receptors from endosomes to the plasma membrane. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Dec 2012]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).