

Product datasheet for **SC110461**

RAB23 (NM_016277) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB23 (NM_016277) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAB23
Synonyms:	HSPC137
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_016277 edited
GAATTCGGCACGAGGCCGGAGTGGCGAGGGTATCGAGGGCAGGGCCTCCCGGCCGGC
TCCCCATCCCCCGTTCCGACCGCCGAGCGCCGGCTCTCCCCTCCCTGAGCACCAGATCC
CAAGTTCAGCTAGAGAAGGTGGGCGGCAGCGCCAGCCCGGCCCCCTCCCAGCTCCCA
GCGATTTGAGAGGAAGATCTGATCTCCTAGAATTAGAGTTGGTACAGAAACCATTTAG
TCCAAAAATGTTGGAGGAAGATATGGAAGTCGCCATAAAGATGGTGGTTGTAGGAATG
GAGCAGTTGGAAAAATCAAGTATGATTTCAGCGATATTGCAAAGGCATTTTTACAAAAGAT
ACAAGAAAACCATTGGAGTTGATTTTTTGGAGCGACAAAATCAAGTTAATGATGAAGATG
TCAGACTAATGTTATGGGACACTGCAGGTCAGGAGGAATTTGATGCAATTACAAAGGCCCT
ACTATCGAGGAGCCAGGCTTGTGTGCTCGTGTCTCTACCACAGATAGGGAATCTTTTG
AAGCAGTTTCCAGTTGGAGAGAGAAAGTAGTAGCCGAAGTGGGAGATATACCAACTGTAC
TTGTGCAAAAACAAGATTGATCTTCTGGATGATTCTTGTATAAAGAATGAGGAAGCTGAGG
CACTGGCAAAAAGGTTAAAGTTAAGATTCTACAGAACATCAGTGAAGAAGATCTAAATG
TGAATGAAGTTTTAAGTATTTGGCTGAAAAATACCTTCAGAAACTCAAACAACAATAG
CTGAGGATCCAGAACTAACGCATTCAAGTAGTAACAAGATTGGTGTCTTTAATACATCTG
GTGGAAGTCACTCCGGTCAGAATTCAGGTACCCTCAATGGTGGAGATGTCATCAATCTTA
GACCCAACAAAACAAGGCCAAGAAAAACAGAAATCCTTTTAGCAGCTGTAGCATACCCT
AAGATGTTTTGGGAGGAAAAAATTGAATTACATTGTGCAATGCATTAAGAAACCCATCC
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ATATCATACCTAATTTTTATAGTGCTTTACTATCAGAATTTATATTGTTTATTATATCTT
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AATGCTAGAGCATCTCCAGGTGAGCCTTATTGCAGATCTTTTTGATATAGTCACCCATA
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CATCTGCAGTCATTCAGGAGGTCCTGTGAAGTGTGGTGTGCATCTAACACCTTTTGCTG
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GCAAAATCTGAAAAATAACTTTTATTGAAAAATGTCATGAAGTCATTTTTATTATTTG
TACTAAACAATGTTTTATGTAATCCTTTTGTGTTTTATCTTTTGTTTTCCATCTGTAAT
CCCCTCATCCTCTAATGTTGAGAAAAATCAAAATTCCTGGGTGTGTCCTTGTAAAGTGT
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_016277 unedited
 GCATTTTGTAAATACGAACACTACTATAGGGCGGCCGGAATCGGCACGAGGGCCGGATGGG
 CAGGGGTATCGAGGGCAGGGGCCCTCCCGGCCGGCTCCCCATCCCCCGTTCCGACCGC
 CGAGCGCCGGCTCTCCCTCCCTGAGCACCGATCCCAAGTTCCAGCTAGAGAAGGTGGGC
 GGCAGCGCCAGCCGGCGCCCTCCAGCTCCAGCGATTTGAGAGGGAAGATCTGATC
 TCCTAGAATTAGAGTTGGTACAGAAACCATTTCCAGCTCCAAAAATGTTGGAGGAAGATAT
 GGAAGTCGCCATAAAGATGGTGGTTGTAGGGAATGGAGCAGTTGGAAAAATCAAGTATGAT
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 TTTGGAGCGACAATTCAAGTTAATGATGAAGATGTCAGACTAATGTTATGGGACTGCG
 AGGTCAGGAGGAATTTGATGCAATTACAAAGGCCTACTATCGAGGAGCCAGGCTTGTGT
 GCTCGTGTCTCTACCACAGATAGGGAATCTTTTGAAGCAGTTTCCAGTTGGAGAGAGAA
 AGTAGTAGCCGAAGTGGGAGATATACCAACTGACTTGTGCAAAACAAGATTGATCTTCT
 GGTGATTTCTGTATAAAGAATGAGGAAGCTGANGCACTGGNCAAAGTTAAAAGTAAGA
 TTCTACAGAACATCAGTAAAAGAAGAATCTAATGTGAATGAAAGTTTTAAGTATTTGGCT
 GANNAATACCTTCAGAACTCANACAACANATAGCTNGAGGATCCCAGAATAACGCATT
 NCAGTAGTAACAGATTGNTGTCTTAATACATCTGGTGGGAGTCACTCCGGTCAGAAT
 TCANGGTACCTCATGTTGGAGATGTCATCAATCTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_016277 unedited
 CCGCAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTACTTTTTAATTTTTTTATTTTTTC
 CATCTAAAATGGCAAAGAGAACATTTACTTTTGATCACTTAACAAGGACACACCCAGGAA
 ATTTGATTTTCTCAACATTAGGAGGATGAGGGGAGTACAGATGGAAAAACAAAAGATAAA
 ACACAAAAGGAGTACATAAAACATTGTTTGTAGTACAAATAATGAAAAATGACTTCATGACA
 TTTTCCAATAAAAGTTATTTTTACAGATTTTGCAATGCTGTAAAAACCAGGTATATTGAA
 AGGGGTTATTTATAGGTTAAAAATAAAGCCATTGATGAGTGATAATCAGTTTTAACAGAG
 TTCACGCAATTATCTTAGCTGGAAAGCTACTGTCCAAGCGACAAAAATTTATGTCCTGAC
 ACATGATTACATATTAATCATTTTTGTAAAAGAAATGATTCTGTATGTGGGACTGACAGC
 TCTTGAGAAAGTGCTATACAAACAAGGTTATAGAAATGTTGAAGTGATTGATAATCTTAA
 AATACCATACAAAAATGTGTAACAAGGATGGTTTGTAGGTTGCAGGGCATTATAAAAT
 ATGTAATTTTGTAAAGACTAATAAATTTTTGTGCACTTTAAAAATGGTTAGTGTA
 ATCTTGTAAAGTTCAAAGCTGGGTTCTCAGTGAGCAGCAAAAGGTTAGATGCATCACCA
 CACTTCACAGGACCTCCTGAATGACTGCAGATGTGCTGTACCTTCTTAAAGGGCTTT
 GCTGACCTTATGAGAAGCAGAGCTCACCATGCTTATGGGTGACTATATCAAAAAGATCTG
 CNATAAGGCTCACCTGGGAGATGCTCTAGCATCCAAATCCTATACTCCTCTTTATCTACG
 CTGTCAGATGAAAAGTCTTACTGCTTTAANAGATTTATAAACAATAAATCCTGATAGT
 AAGCCTTAAATTAGGTTGATATTTGGGCCAAGACTTTTAAACCAGCTT

Restriction Sites:

NotI-NotI

ACCN:

NM_016277

Insert Size:

2630 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_016277.3 , NP_057361.3
RefSeq Size:	3037 bp
RefSeq ORF:	714 bp
Locus ID:	51715
UniProt ID:	Q9ULC3
Cytogenetics:	6p12.1-p11.2
Domains:	ras, RAN, RAS, RHO, RAB
Protein Families:	Druggable Genome
Protein Pathways:	Hedgehog signaling pathway
Gene Summary:	<p>This gene encodes a small GTPase of the Ras superfamily. Rab proteins are involved in the regulation of diverse cellular functions associated with intracellular membrane trafficking, including autophagy and immune response to bacterial infection. The encoded protein may play a role in central nervous system development by antagonizing sonic hedgehog signaling. Disruption of this gene has been implicated in Carpenter syndrome as well as cancer. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1-5 encode the same protein. 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.</p>