

## Product datasheet for **SC127581**

### **RAB23 (NM\_183227) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAB23 (NM_183227) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAB23
Synonyms:	HSPC137
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_183227, the custom clone sequence may differ by one or more nucleotides

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ATGTTGGAGGAAGATATGGAAGTCGCCATAAAGATGGTGGTTGTAGGGAATGGAGCAGTTGGAAAATCAA
GTATGATTCAGCGATATTGCAAAGGCATTTTTACAAAAGACTACAAGAAAACCATTGGAGTTGATTTTTT
GGAGCGACAAATCAAGTTAATGATGAAGATGTCAGACTAATGTTATGGGACACTGCAGGTCAGGAGGAA
TTTGATGCAATTACAAAGGCCTACTATCGAGGAGCCCAGGCTTGTGTGCTCGTGTCTCTACCACAGATA
GGGAATCTTTGAAGCAGTTTCCAGTTGGAGAGAGAAAGTAGTAGCCGAAGTGGGAGATATACCAACTGT
ACTTGTGCAAAAACAGATTGATCTTCTGGATGATTCTTGTATAAAGAATGAGGAAGCTGAGGCCTGGCA
AAAAGTTAAAGTTAAGATTCTACAGAACATCAGTGAAAGAAGATCTAAATGTGAATGAAGTTTTTAAGT
ATTTGGCTGAAAAATACCTTCAGAAACTCAAACAACAAATAGCTGAGGATCCAGAACTAACGCATTCAAG
TAGTAACAAGATTGGTGTCTTTAATACATCTGGTGGAAAGTCACTCCGGTCAGAATTCAGGTACCCCTCAAT
GGTGGAGATGTCAATCTTAGACCCAACAAACAAAGGACCAAGAAAAACAGAAATCCTTTTAGCAGCT
GTAGCATACCCTAA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_183227 unedited  AATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCCCGCAGGGTAGAGCTGG  CGCGTCGGGAGGAGACAGCGCGGCAGCGGTTGCGCCGCGACCAGGAGGAGCCGGTGGCG  CCGGGCGCGGGTCCGCGGCCGGTGGGGACGATTTGAGAGGGAAGATCTGATCTCCTAG  AATTAGAGTTGGTACAGAAACATTTTCAGCTCCAAAAATGTTGGAGGAAGATATGGAAGT  CGCCATAAAGATGGTGGTTGTAGGGAATGGAGCAGTTGGAAAAATCAAGTATGATTCAGCG  ATATTGCAAAGGCATTTTTACAAAAGACTACAAGAAAACCATTTGGAGTTGATTTTTTGGGA  GCGACAAATTCAGTAAATGATGAAGATGTCAGACTAATGTTATGGGACACTGCAGGTCA  GGAGGAATTTGATGCAATTACAAAAGCCTACTATCGAGGAGCCAGGCTTGTGTGCTCGT  GTTCTCTACCACAGATAGGGAATCTTTTGAAGCAGTTTCCAGTTGGAGAGAGAAAGTAGT  AGCCGAAGTGGGAGATATACCAACTGTACTTGTGCAAAACAAGATTGATCTTCTGGATGA  TTCTTGTATAAAGAATGAGGAAGCTGAGGCACTGGCANAAAGGTTAAAGTTAAGATTCTA  CAGAACATCAGTAAAAGAAGAATCTAATGTGAATGAAGTTCTTAAGTATTTGGCTGAAAA  ATCCTTCAGAAACTCAAACACAAATAGCTGAGGATCCCAGACTAACGCTTTCAGTAGTAC  AAGATTGGTGTCTTTATACATCTGGTGAAGTCCCTCCGGTCACAATTAGGTACCCTCATGG  TGGAGATGTATCATTCTTACACCACCAACAAGGACCAGAAAACGAAATCCTTTACCGCTG  TACCTACCTAAGAGTTTGGGAGGAAA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_183227 unedited  TGAACCGCGGGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTACTTTT  TAATTTTTTTTTATTTTTCCATCTAAAATGGCAAAGAGAACATTTACTTTTGATCACTTAA  CAAGGACACACCCAGGAAATTTGATTTTCTCAACATTAGGAGGATGAGGGGAGTACAGAT  GGAAAAACAAAAGATAAAACACAAAAGGAGTACATAAAACATTGTTTAGTACAAATAATG  AAAAATGACTTTCATGACATTTTCCAATAAAAGTTATTTTTACAGATTTTGAATGCTGTA  AAAACCAGGTATATTGAAAGGGTTATTTATAGGTTAAAAATAAAGCCATTGATGAGTGA  TAATCAGTTTTAACAGAGTTCACGCAATTATCTTAGCTGGAAAGCTACTGTCCCAAGCGA  CAAAATTTATGTCCTGACACATGATTACATATTAATCATTTTTGTAAAAGAAATGATTCT  GTATGTGGGACTGACAGCTCTTGAGAAAGTGCTATACAAACAAGGTTATAGAAATGTTGA  AGTGATTGATAATCTTAAAATACCATACAAAAATGTGTAACAAAAGGATGGTTTAGAGT  TGCAGGGCATTATAAAATATGTAATTTTAGTTAAGACTAATAATAATTTTTGTGCAC  TTAAAAATGGTTAGTGAATCTTGTAAGTCAAAGCTGGGTTCTCAGTGAGCAGCAAAAAG  GTGTTAGATGCATCACCACTTCACAGGACCTCCTGAATGACTGCAGATGTGCTGTGTA  CCTTCTTAAGGGGCTTTGGCTGACCTTATGAGAGCANGAGCTCACATGCTTATGGGTGAC  ATATCAAAAAGACTGCATAAGGCTCACCTGGAGATGCTCTAGCATCCAATTCCTATACTC  CTCTTAACTACGCTGTCAGATGAAAACGCTACT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_183227
<b>Insert Size:</b>	2700 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_183227.1</a> , <a href="#">NP_899050.1</a>
<b>RefSeq Size:</b>	2623 bp
<b>RefSeq ORF:</b>	714 bp
<b>Locus ID:</b>	51715
<b>UniProt ID:</b>	<a href="#">Q9ULC3</a>
<b>Cytogenetics:</b>	6p12.1-p11.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Hedgehog signaling pathway
<b>Gene Summary:</b>	<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 (2) differs in the 5' UTR compared to variant 1. 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>