

## Product datasheet for **SC334701**

### **RAB23 (NM\_001278666) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RAB23 (NM_001278666) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAB23
Synonyms:	HSPC137
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001278666, the custom clone sequence may differ by one or more nucleotides

```
ATGTTGGAGGAAGATATGGAAGTCGCCATAAAGATGGTGGTTGTAGGGAATGGAGCAGTTGAAAAATCAA  
GTATGATTCAGCGATATTGCAAAGGCATTTTTACAAAAGACTACAAGAAAACCATTGGAGTTGATTTTTT  
GGAGCGACAAATTCAAGTTAATGATGAAGATGTCAGACTAATGTTATGGGACACTGCAGGTCAGGAGGAA  
TTTGATGCAATTACAAAGGCCTACTATCGAGGAGCCCAGGCTTGTGTGCTCGTGTCTCTACCACAGATA  
GGGAATCTTTTGAAGCAGTTTCCAGTTGGAGAGAGAAAGTAGTAGCCGAAGTGGGAGATATACCAACTGT  
ACTTGTGCAAAACAAGATTGATCTTCTGGATGATTCTTGTATAAAGAATGAGGAAGCTGAGGCACTGGCA  
AAAAGGTTAAAGTTAAGATTCTACAGAACATCAGTGAAAGAAGATCTAAATGTGAATGAAGTTTTAAGT  
ATTTGGCTGAAAAATACCTTCAGAAACTCAAACAACAAATAGCTGAGGATCCAGAATAACGCATTCAAG  
TAGTAACAAGATTGGTGTCTTTAATACATCTGGTGAAGTCACTCCGGTCAGAATTCAGGTACCCTCAAT  
GGTGGAGATGTCATCAATCTTAGACCCAACAACAAGGACCAAGAAAAACAGAAATCCTTTTAGCAGCT  
GTAGCATACCCTAA
```

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001278666
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).



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**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\\_001278666.1](#), [NP\\_001265595.1](#)

**RefSeq Size:** 4368 bp

**RefSeq ORF:** 714 bp

**Locus ID:** 51715

**UniProt ID:** [Q9ULC3](#)

**Cytogenetics:** 6p12.1-p11.2

**Protein Families:** Druggable Genome

**Protein Pathways:** Hedgehog signaling pathway

**Gene Summary:** 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]  
Transcript Variant: This variant (3) 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.