

## Product datasheet for **SC310115**

### Rabenosyn 5 (RBSN) (NM\_022340) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rabenosyn 5 (RBSN) (NM_022340) Human Untagged Clone
Tag:	Tag Free
Symbol:	Rabenosyn 5
Synonyms:	Rabenosyn-5; ZFYVE20
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_022340 edited  
 ATGGCTTCTCTGGACGACCCAGGGGAAGTGAGGGAGGGCTTCTCTGCCCTCTGTGCCTG  
 AAGGATCTGCAGTCTTTCTATCAGCTTCACTCACATTACGAGGAAGAACACTCAGGGGAA  
 GACCGTGATGTCAAAGGGCAAATTTAAAGTCTTGTCCAGAAGGCTAAAAAGCAAAGGAC  
 AGGTTGTTGAAACGAGAAGGGGATGATCGAGCAGAGTCAGGGACCCAAGGATATGAGTCT  
 TTCAGCTATGGAGGGGTGATCCTTACATGTGGGAACCCAGGAGCTTGGTGCTGTGAGA  
 AGCCATCTTTCCGACTTCAAAAAACCCAGAGCTGCTAGAATTGACCACTATGTTGTGGAA  
 GTCAATAAACTAATAATCAGGTTAGAGAAGCTCACTGCATTTGACAGAACAAATACTGAG  
 TCTGCAAAGATTCGAGCAATAGAAAAAGTCTGTGGTGCCTTGGGTCAACGACCAGGATGTC  
 CCTTTCTGTCCAGACTGTGGGAATAAGTTCAGCATCCGGAACCGCCGCCACTGCCC  
 CTCTGCGGGTCTATTATGTGCAAGAAGTGTATGGAGCTCATCAGCCTTCCCTTGGCAAAC  
 AAGCTCACAGTGCCAGCAAGGAGTCCCTGAGCACCCACACCAGCCCAGCCAGTCAACC  
 AACAGTGTCCATGGCTCCCGCCGAGGCAGCATCAGCAGCATGAGCAGTGTGAGTCCGGTC  
 CTGGATGAGAAGGACGATGACCCGATCCGCTGCTGTACACACTGCAAGGACACGCTGCTC  
 AAGAGAGAGCAGCAGATTGATGAGAAGGAGCACACACCTGACATCGTGAAGCTCTACGAG  
 AAATTACGACTTTGCATGGAGAAAGTTGACCAGAAAGCTCCAGAATACATCAGGATGGCA  
 GCATCATTAAATGCTGGGGAGACAACCTACAGTCTGGAACATGCCAGTGACCTTCGAGTG  
 GAAGTGCAGAAAGTGTATGAGCTGATAGACGCTTTAAGTAAGAAGATCTTAACCTTGGGC  
 TTGAACCAGGACCTCCACCACATCCAAGCAATTTGCGGCTGCAGAGAATGATCAGATAC  
 TCAGCTACACTTTTTGTGCAAGAAAAGTTGCTTGGTTTGTACTGCCAACCAAGAA  
 CAGTTTGGAGAACTGAAAAAGAAAAGGAAGGAGGAAATGGAGAGGAAGAGGGCCGTGGAG  
 AGACAAGCTGCCCTGGAGTCCCAGCGAAGGCTTGGAGAAAAGCAGAGTGGCTGGCTTCT  
 CGAGCGGCAACGGGGAGGTGGCATCTCTCCGCAAGGGCCCTGCCCTTGGAGAAAGCT  
 GAGGGCTGGCTCCCACTGTCAGGAGGTCAGGGGCAGAGTGAAGACTCAGACCCGCTCCTC  
 CAGCAGATCCACAACATCACATCATTATCAGGCAGGCCAAGGCCGCGGGCCGATGGAT  
 GAAGTGCAGACTCTGCAGGAGAACCTGCGGCAGCTGCAGGACGAGTATGACCAGCAGCAG  
 ACAGAGAAGGCCATCGAGCTGTCCCGGAGGCAGGCTGAGGAGGAGGACCTGCAGCGGGAA  
 CAGCTGCAGATGTTGCGTGAACGGGAGTTGGAACGAGAAAGGGAGCAGTTTCGGGTGGCA  
 TCCCTGCACACACGGACTCGTCCCTGGACTTCAGAGAAATCGGCCCTTTTCAGCTGGAG  
 CCCAGCAGAGAGCTCGCACCCACCTTGCTTATGCTTTGGATCTAGGCTCTTCCCAGTT  
 CCAAGCAGCACAGCTCCCAAGACCCCTTCACTTAGCTCAACTCAACCCACAGAGTGTGG  
 TCTGGGCCCCAGCCGTTGGCCAGGAGCGTTACCCAGAGCAGCATGCCACAGCAACAT  
 GAGGGGCCCTCCTTAAACCCCTTTGATGAGGAAGACCTCTCCAGCCCATGGAAGAGGCC  
 ACTACTGGTCTCCTGCTGCAGGGGTTTCTTAGACCCTTCAGCCCGCATCCTGAAAGAG  
 TACAATCCTTTGAGGAAGAGGACGAGGAGGAGGAAGCAGTGGCAGGGAATCCATTATT  
 CAGCCAGACAGCCAGCTCCTAACCCCTTCAGTGAAGAACGAACATCCCCAGCAGAGG  
 CTCTCAAGCCCTCTGGTTCCTGGTAACCCCTTTGAGGAACCCACCTGTATCAACCCCTTT  
 GAGATGGACAGTGACAGTGGGCCAGAGGCTGAGGAGCCCATAGAGGAAGAGCTCCTCCTG  
 CAGCAGATCGATAACATCAAGGCATACATCTTTGATGCCAAGCAGTGGCGCCGCTGGAT  
 GAGGTAGAGGTGCTGACAGAGAATCTGCGGGAGCTGAAGCACACCCTGGCCAAGCAGAAG  
 GGGGGCACTGACTGA

**Restriction Sites:** Please inquire

**ACCN:** NM\_022340

**Insert Size:** 2400 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).

<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_022340.2.
<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>	<u><a href="#">NM_022340.2</a></u> , <u><a href="#">NP_071735.2</a></u>
<b>RefSeq Size:</b>	6678 bp
<b>RefSeq ORF:</b>	2355 bp
<b>Locus ID:</b>	64145
<b>UniProt ID:</b>	<u><a href="#">Q9H1K0</a></u>
<b>Cytogenetics:</b>	3p25.1
<b>Domains:</b>	FYVE
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	Endocytosis
<b>Gene Summary:</b>	<p>This gene encodes a protein that belongs to the FYVE zinc finger family of proteins. The encoded protein interacts with Ras-related proteins that regulate membrane trafficking. A missense mutation in this gene is associated with a defect in the early endocytic pathway. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]</p> <p>Transcript Variant: This variant (1) represents the longest transcript. Variants 1 and 2 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>