

Product datasheet for **SC105975**

SCYL2 (BC012387) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SCYL2 (BC012387) Human Untagged Clone
Tag:	Tag Free
Symbol:	SCYL2
Synonyms:	coated vesicle-associated kinase of 104 kDa; CVAK104; FLJ10074; KIAA1360; SCY1-like 2 (S. cerevisiae); SCY1-like 2 protein
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for BC012387, the custom clone sequence may differ by one or more nucleotides

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AGATTTTGTTAATTTTCCTACAAAAATGGATTGCTACTAACC AAAACCCCTCCTGATGAGATAAAGAA
CAGTGTTCTACCCATGGTTTACAGAGCACTAGAAGCTCCTTCCATTGATCCAGGAGCTCTGTCTAAAC
ATCATTCCAACCTTTGCAAACTTATAGACTACCCATCCATGAAAAACGCTTTGATACCAAGAATTA AAA
ATGCTTGTCTACAAACATCTCCCTTGGCGTTCGTGTA AATTCATTAGTGTGCTTAGGAAAAGATTTTGG
ATACTTGGATAAGTGGTTTGTACTTGATGATATCCTACCTTCTTACAACAAATCCATCCAAGGAACCT
GCGGCTCATGGGAATTTTAGTATTTACAAATGTA CTCTACTCATAAGAAGTTGGGAATCACCAAAG
AGCAGCTGGCCGAAAAGTGTGCCTCATCTTATTC CCGTGAAGTATTGAAAACAATCTTAATCTTAATCA
GTTCAATCTTTTCATTTCCGTCATAAAAGAAATG CTTAATAGATTGGAGTCTGAACATAAGACTAAACTG
GAGCAACTTCATATAATGCAAGAACAGCAGAAAT CTTTGGATATAGGAAATCAAATGAATGTTTCTGAGG
AGATGAAAGTTATAAATATTGGGAATCAGCAAAT TGAACAAAGTTTTTAACAACATTGGAGCAGACCTTCT
GACTGGCAGTGAGTCCGAAAATAAAGAGGACGGG TTAACAGATAAACATAAAAAGAGCATCACTTACACTT
GAAGAAAAACAAAATTAGCAAAAAGAACAGAGCA GGCACAGAAGCTGAAAAGCCAGCAGCTCTTAAAC
CCCAAGTGACACACCTGTTGCTACTGTTAAACAG AACTAAGGACTTGACAGACACTGATGGATAATAT
GTCATCCTTGACCAGCCTTCTGTTAGTACCCCTA AATCTTCTGCTTCAAGTACTTTCACTTCTGTTCTT
TCCATGGGCATTGGTATGATGTTTTCTACACCAAC TGAATACAAGAGAAAATTTGACAAATGGCCTAA
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GTTTGTACCTCCTCAAGGTTCTCCAACATGGGCAG TTAAGTAAATGGGGACACAGATGAACGTGATAGGA
CAATCTGCTTTTGGTATGCAGGGTAATCCTTTCT TTAACCCACAGAACTTTGCACAGCCACCAACTACTA
TGACCAATAGCAGTTCAGCTAGCAATGATTTAAA AAGATCTTTTTGGGTGAGGTGTCTTACTTCTATTTG
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ACCTATGGGAAAGTGAACAGTTCGTGACAGGAAAC ATCTCTGTCCATGCCAGCATAGTAGTTGTATGGA
CTTCTAACCAGTTGAGTTTTTTAAAGCATTGAGGAT TTTTCTCTTACCAACTCCTCTTCAGGTTTTTA
AAGACCCAGCCCTTCCCAATCTCAAAGAGAAAAA GAAACTGAGTTATCTTGAATAACATAACTTTTTTA
TCAAATGTTTATTTTGGCTTGTGGATCTTGGTGTT ATTTAAAAAATGAGGTGATGGTCATTGCAAGCTC
ATCTATTAAGTACTATATGGTACACAGTCTATGAG TCAATAGTCTTCATTTAATATGTA AAAAATCTTG
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TATTTGCTTTTTCCAACTTTTCAGATGA ACTATTGTTTAGTACAGAGACTGAGCAAATACTACAAAATT
CAACTTAACCTTCATTTTCATTGGTTTAAATGCGT TATTAACCATCTTAAGTGCAACTAATCATTGTA
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TTGCATTTTCAAAGAAGATTTGTAAGAATTAAC TATATTTATGAGTAAACTTTTGAGGTTTCTGCTGT
ATTGTTCAAATGTAATAAACTTTACTTCTGTAAA AAAAAAAAAAAAAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for BC012387 unedited
 TTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGTTCGTGAACATGTA
 AAGCTACTGTAAATGTAACCTCCGACTGTAAGACCAGATGCAGATCAAATGACAAAGATT
 CCCTTCTTTGATGATGTTGGTGCAGTAACACTGCAATATTTTGATACCTATTCCAAAGA
 GATAATCTTCAGAAATCACAGTTTTTCAAAGGACTGCCAAAGTTCTACCAAACTGCC
 AAGCGTGCATTGTGCAGAGAAATTTGCCTTGTGACTTCAGAAATTTGTAACCCTGAC
 ATGGTACCTTTTGTGTTTGCCTAATGTTCTACTTATTGCTGAGGAATGCACCAAGAAGAA
 TATGTCAAATTAATTCTTCTGAACTTGGCCCTGTGTTAAGCAGCAGGAGCCAATCCAG
 ATTTTGTAAATTTTCTACAAAAATGGATTTGCTACTAACCAAAACCCCTCCTGATGAG
 ATAAAGAACAGTGTCTACCCATGGTTTACAGAGCACTAGAAGCTCCTTCCATTGATC
 CAGGAGCTCTGTCTAAACATCATTCCAACCTTTGCAAATCTTATAGACTACCCATCCATG
 AAAACGCTNTGATACCAAGAATAAAAATGCTTGTCTACAAACATCTTCCCTTGCGGTT
 CGTGTAATTCATTAGTGTGCTTANGAAAGATTTTGAATACTTGGATAAGTGGTTTGT
 CTTGATGATATCCTACCTTCTTACAACANATTCCATCCAAGAACCTGCGGTCTCATG
 GGAATTTTAGTATTACAAATGTACTTTTACTCATAAGAANNNGTGGATCACCAGAGCA
 GCTGGCCGNAAGTGGTGCCTCATCTTATCCCTGAGTATGAAAACATCTAATCTTATC
 AGTTCAATCTTTCATTCCGTCTAAAGAAAGCTTATA

3' Read Nucleotide Sequence:

>OriGene 3' read for BC012387 unedited
 CCCCAGTTATTATCTATGNNACCGCGCCGCATNCTAGNGATCGATTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTAAATTTTACAGAAGTAAAGTTTATTACATTTTGAACAA
 TACAGCAGAAAACCTCAAAGTTTACTCATAAATATAGTTTAAATCTTACAAATCTTCTT
 TTGAAAATGCAATTCATATATGCTGCAACCTCAAAGTTTGAATTTGAAATGAAATATGA
 AGGTAGTAGTCAGGGAAGTCACATCAGAGTGCCTTGTCAAATATCCAAACAAATCAGCAC
 ATACCTCTTCTTGATACAGGAGGAAAAAGTGATTCTAAATATATCCAAGTGAATGCAG
 AAAATACACTACTATTTGAGGCAGACCATGCTAAAATATAATTTACAATGATTAGTTTGT
 CACTTAAGATGGTTAATAACGCATTTAAACCAATGAAATGAAGTTAAGTTGAATTTTGT
 AGTATTTGCTCAGTCTCTGTACTAAACAATAGTTCATCTGAAAAGTTTGGAAAAAGCAA
 TAACCTGATACTTCTCTTATGCTTATCATTTTCTCACTGTCATCTTAAATGCAACAAA
 TCAATACAGCATCAAGATTTTTTACATATTAATAAGAACTAATGACTCATAGACTGTG
 TACCATATAGTACTTAATAGATGAGCTTGAATGACCATCACCTCAATTTTTTAAATAAC
 ACCAAGATCCACAAGCCAAAATAAACATTTGATTAATAAGTTATGTTATTCAAGATAACT
 CAGTTTCTTTTTCTTTGAGATTGGGGAGGGCTGGGTCTTTAAAAACCTGAAGAGGAT
 TTGTAAGAGGAAAAATCCTCATGCTTTTAAAACCTCAACTG

Restriction Sites:

NotI-NotI

ACCN:

BC012387

Insert Size:

3200 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:

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: [BC012387.1](#), [AAH12387.2](#)

RefSeq Size: 2523 bp

RefSeq ORF: 564 bp

Locus ID: 55681

Cytogenetics: 12q23.1

Protein Families: Druggable Genome, Protein Kinase

Gene Summary: The protein encoded by this gene associates with clathrin-coated complexes at the plasma membrane and with endocytic coated vesicles. The encoded protein phosphorylates the beta2 subunit of the plasma membrane adapter complex AP2 and interacts with clathrin, showing involvement in clathrin-dependent pathways between the trans-Golgi network and the endosomal system. In addition, this protein has a role in the Wnt signaling pathway by targeting frizzled 5 (Fzd5) for lysosomal degradation. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Dec 2015]