

## Product datasheet for **SC104520**

### TOM1L2 (AK055959) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TOM1L2 (AK055959) Human Untagged Clone
Tag:	Tag Free
Symbol:	TOM1L2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for AK055959, the custom clone sequence may differ by one or more nucleotides

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TCACCTTCTTGACCCTCTCCATCATTAGCTGCCAGCCAGGCTTACACCCAAGCTGGCTCAGCAGC
CGAGCCTGGCACCAGGGTCCCTGCAGGCTCCCTGGGCAGGGAGAGGGCCAAGGACAATGGGAGGGCAG
CAGGCAGCCCGCAGATGGTGGCCATGTGGCAGCGTGTGAGACGACACTACCAATAAACCAAACTGCCAC
GCACACACTGCAGGCTCACACCCGCACACCTGGTCTGGCTTGTGGAGGGACTTGCCTGGAGGTATTGC
TCTGGCTTGCCTGGGAAGTGTACAGATGTGCACATGGCCACACTCAGTGTGTGGCTGGCTGCCG
TAGCCTCACACATCTGCCTCAAGAGCCAGCAGCAACAGCTTTGTGGCATCCTTGGAGGTTCCCAAGTGC
TGAGAGCCTGGGCAGCAGCAAGGCCCTGCTCTGCTCCCTGGCATAGGCCTTGGCCTCCTGCACAGAC
TCTCCTGACAGTCTGGCCTCCTCCACCTCAGAGGTCCTCTGGCCACCAATTTATACTCTCTTCCCAAGC
TGATCCTGAAGGCAGGCAGAGCAGCTAGGGCTGGTAACATGTATTCCCATCCCGTGTCTCACTGGTGT
GTCTCCTGGCCATGGCAAGGGACTCGGGTTCATCCAGGCCCTGGTCCAGCCAGACACTGGCCCCACAC
CTCCCACCAGGCTGCTGTTGCTCAGAAGGAGAATACTGCAGCTGTATGCATCCCCGTGTCTTGGGCC
AGCTCGTGGGTGAGTCTGCTCCTGTCCCCTCCAGCATGCACTGCCTAGGTGAGCACAGGTTCTGATCC
ATGGTGTAGTTAGCCCTTCCACCTGGCAGGACGGCCAGACCACCAGCCAAGCAGGAAAGGGGGCTGG
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CATGCTGAGCACCAACAGGAATATTCCAGTGAAGAGCAAGTGTGCCGACCCAGGACCTGTGCCAGG
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TCACTCCAGTTGCTCAGGTTACCCAGGAAGCTCCTCCGTGGAGTGGCCAGCCTGATTCTAGCCCTGTCC
TCTCTGGCAGCACATGCCACACCTGCCTGGGCTTCTGCTCCCTGATGCTTGATGAGCCCTGCCTCCTC
AATGTTTCTCAAAGACAGACCCCTGAGGCCAGCTTGAATGTGAAGACTGCTGAAGTCACTGGCTTCA
CTTGAGCTGCAGAAAAGTGGTGGGATGGCCAGGTGCACCCAGAGGCCCCAGCCCTTTGGCTGCCTTT
GGGTTGTGACTTGGTGTCTCTGAGGCCCTGCCAGAGCTGGGCTGCGGGTGGTGGGCGGTCCGACCTC
GGGCAGTCAGTGTCCGACGCTCAGACTGCATCCCAGACCCAGTGTCTCAGAGGGAAGAGCCAGCCT
CCCTGCCTATGGAACCCAGGAGTCCCAAAAAGTCAGGAGCCTGGAGGCTCTGAAAGGAGCAGGGATTCCA
TAGTGCCTGAAGCTGAAATAGGCCCTCCTGGGAGCCCCAGCAAACTGTTTTTCATACCCACTCCC
AGAACTGCCCGCTCCAGCTCCAGCGCCAGCGCCAGCTGGTTGCCAGGCGTCATTGGAGAGGCTGGCTG
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CCCCAGGGGCAGCAGGGAGTGGTGGACCTGTATGGGCTGGCAGGAGGCCATTGGCCATGCTGACAAGTGT
CACCTGCCTTCTAGCCTGGAGCCACCCCTCAGGTGGCCTGCTTGACCTCCTATCCGGAGGTAGCCTGC
CCCACCTGTAGGCAGAGGGGGCTCTTGCTTGAGGCCTGCACAGGAAGCAAGTATAGCCCCGGTCCCCAG
AGTGGGTTCCACTTAGCCTGGCGAGATGGCCTGTCTGAGATCTCTGCTCCCAGACCCACCATCTGGG
GAGCACAGTCTTAGGCTGCCTGGTCCAGGAAGGGGTGCGGCTCTGTGAGAAACCTGGACTCTCAAGG
CCCACCAGCCTCTCCGTGAGTGTTAGAAATCACAGATACAGTATATACTTAATTACACTAAATTTTCTT
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TGCTTGCAGCCTGGCTTACGCTCTGGCACTGTGGAGTGGTCCCTGGGAGCTTCTGCACTGTGGCTGT
GGGGAGCTCTACCCACTTGGGTTACAGTAGGCCCTTCCCACCCAGAGAGAAGTGTTCACCCAGAGA
CATTGCCTGTGAGCCCTGAAGTGTCTCGCTCCCCAGTGCCCGTACCAGCCCTTCTATCTGTGGGGT
CCAAGTCAGGCTTCCCTGCGGCCACCAGCCATAGGGAGCAGCCATCAGCCCCGAGTCAGAAGTCTTC
TGCTGTCCATACCTCCAGGCTCTCCCGAGAGGGGACGGATATTTATTTCTAAAGTTGCACTTAAT
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CTCGTCTAGAAGTTTAGTGTGTTTGTCACTGTCAATGTGTTTCTGTGGGCAGAGCTGGTTCTGGAGGGTG
GGTCAGTGCACCCGAGGCTCAGAGCATCCATCCACCCACTGGCCCTCCTTCCAGATACCCTCTCTCTAA
TTGGGTTCTTGCAATGTAATACTCCACAATAATAAATAATTGAAC
    
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**5' Read Nucleotide Sequence:**

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>OriGene 5' read for AK055959 unedited
GGGATGTGTGTTAAAAATTTATTTCTNCCNNNTTTCTTTACCCCGCCGNTGNCGCAAA
GGGCGGTAGGCGGTACGGTGGNGAGTCTATATAAGCAGNACTCATTTAGGTGACTAT
AGAATACAAGCTACTTGTCTTTTTGCAGCGCCGGAATTCGGCACGAGGATTGCTCTG
GCTTGCCTGGGAAGTGTACAGATGTGCACATGGGCCACACTCAGTGTGTGGCCTGGC
CTGCCGTAGCCTCACACATCTGCCTCAAGAGCCAGCAGCAAACAGCTTTGTGGCATCCTT
GGAGGTTCCAGTGACTGAGAGGCTGGGCAGCACTAAGGCCCTGCTCTGCTCCCTGGC
ATAGGCCCTTGGCCTCCTTGCACAGACTCTCCTGACAGTCTGGCCTCCTCCCACCTCAGAG
GTCCTCTGGCCACCAATTTATACTCTCTCCCAAGCTGATCCTGAAGGCAGGCAGAGCAG
CTAGGGGCTGGTAACATGTATTCCATCCCGTGTCTCCTACTGGTGTGTCTCCTGGCCCTG
GGCAAGGGACTCGGGTATCCCAGGCCCTGGTCCAGCCAGACACCTGGCCCCACACCTCC
CACCAGGCTGCTGTTGCTCAGAAGGAGAATACTGCAGCTGTATGCATCCCCGTGTGTCTT
GGGCCAGCTCGCTGGGTGAGTCTGCTCCTGTCCCTCCAGCATGCACTGCCTAGGTCAG
CACAGTTTCTGATCCATGGTGTAGTTAGCCCTTCCCACCTGGCAGGACGGCCAGACCA
CCAGCCAAGCAGGAAAGGGGCTGGGCTTGACGGGAGAAGAGACCAGCGACATGGTCGT
TTGGGAGCATTNAGATGGCGACTTCAGCTGGNGGTGATGCTGAGCACCACAGCAACTAT
TCCAGTGAGAGCAGTGTGCCGACCCAGNACCCTGTGCCAGNCTAGCAGCCCT
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for AK055959 unedited AACTACTATGTANCGTCGGCCGCNCTTCTANNGATCGAGTTTTTTTTTTTTTTTTTTTTGTT CAATTATTTATTTATTGTGGAGTATTTTACATGCAAGAACCCAATTAGAGAGAGGGTATC TGAAGGAGGGCCAGTGGGGTGGATGGATGCTCTGAGCCTCGGGTGCCTGACCCACCCT CCAGAACCAGCTCTGCCACAGAAACACATGACAGTGACAAAAACACTAACTTCTAGGA CGAGTGGACAGCAAACGCGACATTCAACACATTCTCTTTTTCAGTAGCCCCCAACAATCC TGAGAATCCTCACAATTAAGTGCAAACCTTAGGAAATAAATATCCGTCCCCTCTCCGGG AGAGCCTGGAGGTATGGACAGACAGAAGCAGTTCTGACTCGGGGCTGATGGCTGCTCCC TATGGCTGGTGGCCGAGGGGAAGCCTGACTTGGACCCACAGATAGGAAGGGCTGGTGA CGGGCACTGGGGGAGGCGAGCACTTCAAGGGCTGACAGACAATGTCTCTGGGGTGGAAAC ACTTCTCTCTGGGTGGGAAGGCCTACTGTAACCCAAGTGGGTGAGACGTCCCCAAGCC GACAGTGCAGAAGCTCCCAAGGACCACTCCAGCAGTGCCAGATGCTGAAGCCAGGCTGCA AGCAAGTCTCTCCACTGCTCTTTTCAGAGCTGCCCCAGGGCTGGCCTGGGCCCCAGT GGCCCATGGCCTACCCAGCCATCCAGAATGCTGGGCCCACTGANTTANAAAGCGTGTCT GCGGGGGCCAGGTGGGGTGTGGCANCCGAAAGAAGGGGGCAAGATCTTGAACATCGCA GCAACTGCCCTGCGAGCATTTGTTGCCTTGGCCATGTGGAACCTTGCCCAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AK055959
<b>Insert Size:</b>	3700 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="#">AK055959.1</a>
<b>RefSeq Size:</b>	3547 bp
<b>RefSeq ORF:</b>	3547 bp
<b>Locus ID:</b>	146691
<b>Cytogenetics:</b>	17p11.2

**Gene Summary:**

This gene belongs to a small gene family whose members have an N-terminal VHS domain followed by a GAT domain; domains which typically participate in vesicular trafficking. The canonical protein encoded by this gene also has a C-terminal clathrin binding motif. This protein has been shown to interact with Tollip, clathrin and ubiquitin and is thought to play a role in endosomal sorting. This gene resides in the 3.7 Mb deletion of chromosome region 17p11.2 that is associated with Smith-Magenis syndrome. Alternative splicing results in multiple transcript variants encoding distinct proteins. [provided by RefSeq, Apr 2017]