

Product datasheet for MC222999

9030624J02Rik (NM_027815) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	9030624J02Rik (NM_027815) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	9030624J02Rik
Synonyms:	2610029J22Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC222999 representing NM_027815 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCTGGGGCGGGCCGAGCTTCCCTGGATGTGAGAAAAGGGGCTGGACGCGGAAAACAGGCGATC
ATGTGACTGGGAAGATGGCTGTCTTTCCCTGGCATTCCCAGAACAGGAACAAGGCGGAGCTGGCGTC
TTGCAGGTTGGAGACAGTGCCTCTGGAGTGCGGCGACTACCACCCGCTGAAGCCCATCACTGTCACGGAG
TCAAAGACAAAGAAAGTGAAGCCGAAAGGAAGCACGTCTTCTACCTCCTCCTCTTCCAGCTCCGTGA
TCGATCCTCTGAGCAGCGTCTCGATGGCACCCGCTCTCCATGTTTGCAGCCACCTCGGACCCGGC
AGCCACAGGAACAGTACAGACAGCTCCAGAAAGAAACGTGATAAGGATGAGAACTCCTTGTGGGACCT
GATTTTCGAGCCCTGGGCAACAACAGTGTGAAATCCTTGCCCGGTACACAACACAGAGAAGCTGTCTA
TTAATCTGTTTATGGGATCAGAAAAAGGCAGAGGTGGGGCTGCGGCTTCTGCCATGTGAGAGAAGTTTCG
GACGCGCTGGAAGAGCTGGATGACTTTGAGGAGGGATCCCAGAAGGAGCTGCTGAACCTGACCCAGCAG
GATTATGTGAACCGCATAGAGGAGCTCAACCAGTCTCTGAAGGATGCCTGGGCTCGGACCAGAAGTGA
AGGCTCTGAAGATCGTCATCCAGTGTCAAAGCTGCTGTGACACAGAGTGTATTCAGTCTACCCAAG
CAAGTTTGTCTCATACCGACATCCTTGATACGTTTGGAAAGCTGGTCTATGAGCGCATCTCCTCGATG
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CATCCTGAAGTGAACAAGTTCCTCTCCAAAACGGGGATTTTCAGAGTGCCTGCCCGACTAACCTGCATG
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TGGCCCCGACCTCAAGGAGAGCCTCAATAAGAACTTCTTTGACTTCTGCTGACATTTAAACAGATTCA
TGGGGACACTGTCCAGAACCAGCTGGTGGCCAGGGTGTGGAGCTGCTGTCTATCTCCCTGTACTCG
CCTGCCATGGGCTGGATCTTCCAGTGTGTCTCCTACCACGCTCCAGAGGCTTTGCTGACGGAGATGATGG
AAAGATGAAGAACTAGGGAACAATGCTTTGCTGTTGAACTCCGTGATGTCAGCTTTCAGGGCTGAGTT
CGTTGCCACCAGGTCTATGGACTTCATCGGCATGATCAAAGAGTGTGACGAGTCCGGCTTCCCAAGCAT



CTCCTTTTTCGTTCATTGGGGTTAAACTTGGCTTTGGCTGATCCTCCTGAGAACGATCGACTTCAGATTC
TCAATGAAGCTTGGAAAGTCATCACTAAACTGAAGAGTCTCAGGACTACATTAATTGTGCCGAGGTTTG
GGTAGAGTACACCTGCAGGCATTTACGAAACGAGAAGTTAACTGTTCTGGCTGACGTCATCAAGCAC
ATGACTCCGGATCGAGCATTGAGGACTTTACCCCACTCCAGTCAATCATTGAGAAAGTCATCGCCC
ACTTCCACGATTTCTCAGTCTTTTCTCAGTGGAAAAGTTTCTACCATTTCTGGACATGTTCCAGAAAGA
GAGTGTGCGGGTGGAGGTTTGAAGTGCATCATGGAAGCCTTTATCAAGCACCAGCAGGACCAACCAAG
GACCCTGTCATCCTCAATGCCCTTTTGCACATTTGCAAGACAATGCACGACTCCGTGAACGCTCTCACTC
TTGAGGATGAGAAAAGGACGCTGGCCCACTTGATCAATGGATTTATAAAAATGGTGTCTTTGGCCGTGA
TTTTGAACAGCAGCTCAGCTTTTACGTCGAGTCCAGGTCTATGTTTTGCAACCTGGAACCTGTTCTTGTG
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AGACAGCTGCGTTTGTCCGGGCTGTGTTGCCTACTGCTTCATCACCATCCCGTCCCTGGTAGGGATCTT
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GCTTTCTCAAAGCCGCATCGGCCTCGTTCGGAAGTCCCAAAGACGATAAGCATCGATGGGAAGCTGC
GGCCGTCGGAGCCCTTCTACTGGAATTCCTGTGCAATTTCTTCTACCTTATTGATTGTGCCGGATCA
TCCAGAGCACGGAGTCTATTTCTGGTTCGAGAACTTCTCAACGTGATCCAGGACTACACCTGGGAGGAC
AGTAGTGATGACAAAATTCGAATCTACACTCTGTCTGCACCTGCTGTCTGCCATTGAGCCAGGACACCT
ATCTTTACCACATAGACAAAGTTGACTCCAATGACAGCTTGTACGGGGGAGACTCCAAGTTCCTGGCTGA
GAACAGCAAGCTGTGTGAGGCTGTGATGGCTCAGATCCTGGAGCACCTGAAAACCTGGCCAAAGACGAG
GCTCTGAAGCGACAGAGCCTGCTGGGCCTCTCCTTCTTCAATAGCATCCTAGCCACGGGGACCTTCGTA
ACAACAAGCTGAACCACTCTCTGTCAACCTATGGCACCTGGCACAGAGACACGGCTGTGCAGACACAAG
GACTATGGTGAAGCTCTGGATTACATCAAGAAGCGAAGCAACCAACCTGACATGAATCATCTGTGACAG
CTGGCCCTGAGGCTCCCTCTGCAACCAGGACC TGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_027815

Insert Size:

2976 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:[NM_027815.4](#), [NP_082091.3](#)**RefSeq Size:**

3578 bp

RefSeq ORF:

2976 bp

Locus ID: 71517

UniProt ID: [Q8BWQ6](#)

Cytogenetics: 7 F2

Gene Summary: Acts as component of the retriever complex. The retriever complex is a heterotrimeric complex related to retromer cargo-selective complex (CSC) and essential for retromer-independent retrieval and recycling of numerous cargos such as integrin alpha-5/beta-1 (ITGA5:ITGB1). The recruitment of the retriever complex to the endosomal membrane involves CCC and WASH complexes. In the endosomes, drives the retrieval and recycling of NxxY-motif-containing cargo proteins by coupling to SNX17, a cargo essential for the homeostatic maintenance of numerous cell surface proteins associated with processes that include cell migration, cell adhesion, nutrient supply and cell signaling. Involved in copper-dependent ATP7A trafficking between the trans-Golgi network and vesicles in the cell periphery; the function is proposed to depend on its association with the CCC complex and cooperation with the WASH complex on early endosomes. Seems not to be required for CCC complex stability.[UniProtKB/Swiss-Prot Function]