

## Product datasheet for **RR213196**

### Sort1 (NM\_031767) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sort1 (NM_031767) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sort1
Synonyms:	Nt3; Nts3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR213196 representing NM\_031767  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGCGGCCCGGGGAGCTGCGGACGGCCTTTTGGCGTGGCCCTTGGCCTCCTCCTGCTCCTGCAGC  
 TGCTGCCGCCAGCCGCCGTCGGCCAGGACCGGCTGGACGCGCCGCGCCTCCCGCCTCCTCTGCTGCG  
 CTGGGCGCGTCCGGTCCGGGTGAGCTGGGGCTGCGCGCCGCGCGCCGGGGCCCTGTCCCCCGCGT  
 GGCGTTGGCGCCGCGCGCGCCTGCAGAGGATCAGGACTGCGGCCGCTCCCGACTTCATCGCCAAGC  
 TGACCAACAATACGCACCAGCATGTCTTTGATGACCTCAGTGGCTCAGTGTCTTGTCTGGGTTGGAGA  
 CAGCACTGGGGTTATTCTCGTCTGACTACTTTCCAAGTCCACTGGTAATTGTGAGTTTGGACAGTCC  
 AAGTTATATCGCAGTGGATTACGAAAGAATTTAAGGACATTACGAATCTCATCAATAACACCTTCA  
 TTCGGACGGAGTTCGGCATGGCTATTGGTCCCAGAACTCTGAAAGGTGATTAACAGCAGAGGTGTC  
 TGGGGGAAGCCGAGGAGGAAGAGTGTTCAGGTCATCAGACTTTGCCAAGAACTTTGTACAGACAGACCTC  
 CCCTTTCATCCTCTGACTCAGATGATGTACAGCCCTCAGAATTCTGATTACCTGTAGCTCTCAGCACTG  
 AAAATGGCCTGTGGGTGTCCAAGAATTTGGGGAAAAATGGGAAGAAATCCACAAAGCAGTATGTTTGGC  
 CAAATGGGGACCAAAACAATCATCTTCTTTACCACCCATGTGAATGGCTCCTGCAAAGCTGATCTTGGT  
 GCCCTGGAATTATGGAGAACATCCGACTTGGGGAAAACCTTCAAACCATTTGGTGTGAAAATCTACTCAT  
 TTGGTCTTGGGGCCGTTTCTCTTTCGCTCTGTGATGGCTGATAAGGATACAACAAGAAGGATCCACGT  
 GTCAACAGACCAAGGGGACACATGGAGCATGGCACAGCTTCCCTCTGTGGGACAGGAGCAATTCTATTCT  
 ATCTGGCAGCCAACGATGACATGGTGTTCATGCATGTAGATGAACCTGGAGATACTGGATTTGGTACAA  
 TCTTTACCTCTGATGACCGAGGCATTGTCTACTTAAGTCTCTGGACAGACATCTATACCACCAAGG  
 CGGGGAGACCGACTTTACCAACGTGACTTCCCTCCGTGGAGTCTATATAACAAGCACACTCTCAGAAGAT  
 AATTCCATTACAGCATGATCACTTTTACCAGGGAGGACGGTGGGAGCATCTGCAGAAGCCGGAGAACA  
 GCAAGTGCATGCTACCGCAAAGAACAAGAATGAGTGCAGCCTTCATATCCATGCTTCTTACAGCATCTC  
 CCAGAAGCTAAATGTTCCAATGGCCCACTCTCCGAGCCCAATGCCGTGGGCATAGTCACTCGCTCACGGT  
 AGTGTGGGAGACCCATCTCGGTGATGGTCCCAGACGTGTACATCTCAGATGATGGGGTTACTCTTGGG  
 CAAAGATGCTAGAAGGACCGCATTATTATACCATCCTGGACTCTGGAGGCATCATCGTGGCCATTGAACA  
 CAGCAACCGTCTATCAATGTGATTAAGTTCTCCACAGACGAAGGCCAGTGTGGCAGAGCTATGTGTT  
 AGTCAGGAGCCCTACTTACCAGGGCTGGCTTCCGAGCCGGGAGCCAGGTCCATGAACATCAGCATCT  
 GGGGATTCAGGAGTCTTTCCTTACCAGCCAGTGGGTCTCCTACACAATTGATTTCAAAGACATCCTTGA  
 GCGCAACTGTGAAGAGAATGACTATACCACATGGCTGGCACACTCCACTGACCCCGGAGATTACAAAGAT  
 GGCTGCATTTTGGGCTATAAAGAGCAGTTCCTACGGCTACGGAAGTATCCGTCTGTGAGATGGTCGAG  
 ACTATGTTGTGGCCAAGCAGCCATCCATCTGTCCTGTTCCCTGGAGGACTTCTCTGTGACTTTGGCTA  
 CTTCCGTCCAGAGAATGCCTCAGAGTGTGTGGAGCAGCCGGAAGTGAAGGGTCAAGGTTAGAGTTCTGT  
 CTGTATGGCAAAGAGGAGCACCTGACCACAAATGGGTACCGGAAAATCCCAGGAGACAGATGCCAAGGG  
 GAATGAATCCGGCCCGAGAAGTAAAAGACTTGAAGAAGAAATGCACAAGCAACTTCTTAAACCCCAAGAA  
 GCAGAATTCCAAGTCGAGTTCTGTCCCTATCATCCTGGCCATCGTGGGACTGATGTTGTCAGTGTGCTA  
 GCAGGAGTCTCATTGTGAAGAAGTATGTCTGTGGCGGAAGTTCTGGTGCACCGGTACTCGGTGCTTC  
 AGCAGCACGCAGAGGCTGACGGGTGGAGCTTTGGATACGGCCTCCACGCTAAAAGCGGTTATCACGA  
 TGATTCAGACGAGGACCTCTGGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

>RR213196 representing NM\_031767  
Red=Cloning site Green=Tags(s)

MERPRGAADGLLRWPLGLLLLLQLLPPAAVGQDRLDAPPPPAPLLRWAGPVGVSWGLRAAAPGGPVRA  
GRWRRGAPAEDQDCGRLPDFIAKLTNNTHQHVFDDLSGSVLSWVG DSTGVILVLTTFQVPLVIVSFGQS  
KLYRSEDYGNFKDITNLINNTFIRTEFGMAIGPENSGKVILTAEVSGGSRGGRVFRSSDFAKNFVQTDL  
PFHPLTQMMYSPQNSDYLLALSTENGLWVSKNFGEKWEEIHKAVCLAKWGPNNIIFFTTHVNGSCKADLG  
ALELWRTSDLGKTFKTIQVKIYSFGLGGRFLFASVMADKDTTRRIHVSTDQGD TWSMAQLPSVGQEQFYS  
ILAANDDMVMHVDEPGDTGFGTIFTSDDRGIVYKSLDRHLYTTTGGETDFTNVTSLRGVYITSTLSED  
NSIQSMITFDQGGWEHLQKPENSKCDATAKNKNECSLHIHASYISQKLNVPMAPLSEPNVAVGIVIAHG  
SVGDAISVMVPDYVISDDGGYSWAKMLEGPHYITLDSSGGIIVAIEHSNRPINVIKFSTDEGQCWQSYVF  
SQEPVYFTGLASEPGARSMNISIWGFTEFLTRQWVSYTIDFKDILERNCEENDYTTWLAHSTDPGDYKD  
GCILGYKEQFLRLRKSSVCQNGRDYVVAKQPSICPCSLDFLCDFGYFRPENASECQEPELKGHELEFC  
LYGKEEHLTTNGYRKIPGDRQCQGMNPAREVKDLKKKCTSNFLNPKKQNSKSSSVPIILAIVGLMLVTVV  
AGVLIVKKYVCGGRFLVHRYSVLQQHAEADGVEALDTASHAKSGYHDDSDDELLE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

## Restriction Sites:

Sgfl-MluI

## Cloning Scheme:



**ACCN:** NM\_031767

**ORF Size:** 2475 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_031767.1](#), [NP\\_113955.1](#)

**RefSeq Size:** 6690 bp

**RefSeq ORF:** 2478 bp

**Locus ID:** 83576

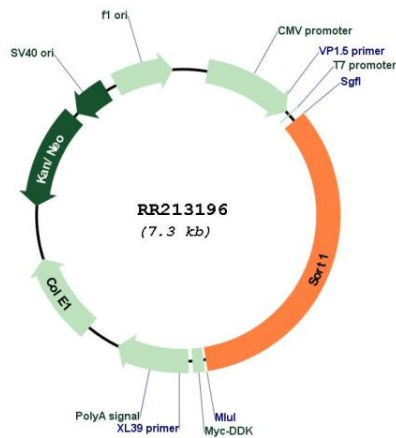
**UniProt ID:** [O54861](#)

**Cytogenetics:** 2q34

**MW:** 91.2 kDa

**Gene Summary:** may be involved in sorting luminal proteins in the trans-Golgi [RGD, Feb 2006]

**Product images:**



Circular map for RR213196