

## Product datasheet for MC223824

### Synj2 (NM\_001113351) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Synj2 (NM\_001113351) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Synj2  
**Synonyms:** AI481647; mKIAA0348; SJ2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC223824 representing NM\_001113351  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGGATCGC

ATGTCAGTGGGCAGAATTCAGATGCAGAGATCTACAAAATCACTGCCACTGAGTTGTACCCCTGCAGG  
 AAGAGGCCAAGGAAGAGGACCGCTGCCACCTAAAGAAAATCCTGAGCTCAGGGGTGTCTATTTTCGC  
 ATGGCCCAATGATGGCGCCTGCTTCGATCTGACCATCAGGGCTCAGAAACAGGGTGATGACGGCTCTGAA  
 TGGGGGACCTCTTTCTTCTGGAACAGCTATTGCATGTGCCTCTGCGGCAGCACCAGGTGAAGTGTGATA  
 ACTGGTTGCTGAAAGTCATCTGTGGGGTGGTGACCATCCGCACAGTATATGCCTCCACACAGCAGGCCAA  
 GGCCTGTCTCATCTCTCGCATCAGCTGTGAACGCGCAGGTGCTCGCTTCTCACCCTGGTGTGAACGAT  
 GATGGCCACGTGTCCAATTTGTGGAGACAGAGCAGACGATTTACATGGATGATGGAGTATCGTCCTTTG  
 TCCAGATCCGAGGCTCCGTTCCGCTGTTCTGGGAGCAACCAGGACTTCAGGTTGGCTCCCATCATCTGAG  
 ACTGCACAGAGGCCTAGAGGCCAACGCTCCTGCTTTTGAAGGCACATGGTGTCTCTGAAGGAGCAATAC  
 GGTAAAGCAGGTGGTTGTGAACCTGCTGGGTAGCAGAGGCGGTGAAGAGGTGCTCAACAGAGCCTTCAAGA  
 AGTTGCTCTGGGCTTCTTGCCACGCGGGTGACACACCTATGATAAATTTTACTTCCATCAGTTTGGCAA  
 AGGTAGGAAGCTAGAGAAATTGGAGAACCTGTTGAGACCTCAGTTACAGCTACACTGGGAAGACTTCGGC  
 GTGTTTGCGAAGGGCGAGAATGTAAGTCCACGGTTTCAGAAAGGCACTCTGCGGATGAACTGTCTCGACT  
 GTCTGGATAGAACCAACTGTGCAGTCTTATTGCTCTTGAGGTCCTCATCTGCAGCTTGAGAGCTT  
 GGGGCTAAATCAAAGCCATCATTGACCGTTTTGTGGAGTCTTCAAAGCCATGTGGTCTCTGAATGGG  
 CACAGCCTGAGCAAGGTGTTACAGGGAGCAGGGCCCTGGAAGGAAAGGCCAAGGTGGGAAAGCTGAAGG  
 ATGGGGCCCGATCCATGTCTCGACCATCCAGTCCAATCTTTCGACGGGGTGAAGCAGGAGGCCATCAA  
 GCTACTGCTAGTCGGAGATGTCTACAATGAAGAGTCTACAGACAAAGGACGGATGCTGCTGGACAACACG  
 GCCCTTCTGGCAGCCCCAGGATCTTGAAGCCATGACAGAACGCCAGTCGGAATTCACGAATTTCAAGC  
 GCATCCAGATTGCTGTGGGGACCTGGAATGTGAACGGAGGAAAGCAATTCGTAAGCAATCTCTGGGGAC  
 GGCTGAGCTCACGGACTGGCTCCTAGATGCTCCTCAGCTGTGAGGAGCAGTGGACTCCCAGGATGATGGC  
 AGTCTGCTGACGATTTGCCATCGGGTTTGGAGAGATGGTGAAGTACTGAGTGGGAAATATTGTCAATG



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CCAGCACCACCAACAGGAAGATGTGGGGCGAGCAGCTTCAGAAAGCCATCTCCCCTCCCATCGGTACAT
CCTCTTGACCTCCGCACAGCTGGTGGGCGTCTGTCTTTACATCTTTGTACGTCCGTACCACGTCCCCTTC
ATCAGAGACGTGGCCATCGACACCGTGAAGACCGGCATGGGGGAAAGGCGGGGAATAAGGGTGTGTGG
GCATCCGCTTCCAGCTCCACAGCACCAGTTTCTGCTTCGTCTGTAGCCACCTGACGGCTGGGAGTCTCA
GGTGAAGGAGAGGAATGAAGACTACCGGGAGATCAGCACAACCTCTCCTTCCCTTCGGGGAGAAACATA
TTTTACATGATTACGTGTTTTGGTGTGGCGATTTCAACTACCGTATTGATCTTACTTACGAAGAAGTCT
TCTATTTTGTAAACCGCAAGACTGGAAGAACTTATGGAATTCGATCAGTTACAGAAATCAAG
TGGAAAAATTTTTAAAGACTTTTCATGAAGGAGCCGTTAACTTCGGACCCACCTACAAGTATGACGTTGGA
TCAGCTGCCTACGACACAAGTGACAAGTGCCGTACCCAGCCTGGACAGACAGGGTGCTGTGGTGGAGGA
AGAAGCATCCATATGATAAAACAGCTGGTGAACCAACCTTCTAGACAGCGATCTAGACGGCGATCCCCA
AATCAGACACACCTGGTCTCCAGGCACTCTGAAATACTACGGCCGTGCAGAGCTGCAGGGCTGTGATCAC
AGACCTGTGCTGGCCATTGTGGAGGTGGAGGTTCAAGAGGTGGATGTAGGAGCCCGGAGAGGGTCTTCC
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TGGATGTGGATGGTATGAAGGTGAAAGGCAGGGCCGTGAAGATTCGACCAAAAGACCAAAGATTGGCTAGA
AGGCCTGAGAGAGGAGCTTCTCCGGAAGCGAGACAGCATGGCCCTGTGTCTCCACCGCAACTCCTGC
TTGTTGGAGGAGAAGTTTGAATCTCGAGTCTGGACTATGAGTCCGAAGGGGATGTTCTTGAAGAGGATG
AAGACTATTTAGTGGATGGGTTTGGCCAGCCTGTAGTCTCAGACAGTGCAGTCCGTTGGAGACAATCTTC
CGACACCATGAGCTCCTTGACACCCGCCAGCAAGTCTCCCGCCCTGGCTAAAAAGAAGCAACATCCAACA
TACAAAGCTGGCTTAATGGTGAAGAAGTCAAGCTCAGACGCGTCCATCTTCTGGCACTCATGGACAAT
ATTCCATCTTGCAGACAGCGAACTTCTCCAGGAGCACCCAGCAACCAAGGCTAGAAGTGGAAAT
AAGTAAACCTTACAACGTCAAACAGATCAAACACCAACGCTCAGGAGCAGAAGCAGTATCCGGTGT
CTCCTGGAAGCTAGCGGAGGGTCCCGGAATCAGCCCCAGGTGCCATACCCTGAGAAACCAAGGGTCTT
CTAAGCCAGAGGCCACCCTGGGGCCCCAGCCCTGCCCGCCGCGCTGCTCAAGGGTCCCACTATGAA
GAAACCAACTTTGAGGAGGACAGGAAAGGTGACTCGGCATCTCCAGTGCTTGCCTGAAGAGCTGCGC
TCTGCTGCCTGCACCCACACGCAGTGCAGTGCACAGGACTGCGGAGACCTTAACAACAGATGGAGAATGC
CACGTTTCTCGCACTATATTCACACAAAAAATGGAAGAACGTATCTCTCAGTTTTCAAGATCTCTGGCT
AAAGTTTCGCAGATGA
    
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AGCGGACCGACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA
    
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- Restriction Sites:** SgfI-RsrII
- ACCN:** NM\_001113351
- Insert Size:** 3516 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\\_001113351.1](#), [NP\\_001106822.1](#)

**RefSeq Size:** 3992 bp

**RefSeq ORF:** 3516 bp

**Locus ID:** 20975

**UniProt ID:** [Q9D2G5](#)

**Cytogenetics:** 17 3.59 cM

**Gene Summary:** Inositol 5-phosphatase which may be involved in distinct membrane trafficking and signal transduction pathways. May mediate the inhibitory effect of Rac1 on endocytosis (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (4) has multiple differences in the coding region but maintains the reading frame compared to variant 1. This variant encodes isoform d which is shorter than isoform a.