

## Product datasheet for **MR230558**

### Syt14 (NM\_001301370) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Syt14 (NM_001301370) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syt14
Synonyms:	B230320I09Rik; sytXIV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR230558 representing NM\_001301370  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGATCGAAGGTGGAGAGAGAACCTGTGGAGTACATGAACCTATCTGTATTAGAAAAGTCTCTCCAG  
 AGGCGGTTGGATTTTGTGTCAGCAGTTGGGGTGTATTATTGCTTGTATGCTGCTCCTTTTTCTCTATATTAA  
 TAAGAAGTTCTGTTTTGAAAATGTTGGAGGGTTCCAGATCTTGGTTCAGGATACAATACACGGACGAAT  
 TCACAAGATAAAATGTATAATTCTTACATGGACAGAGATGAGCCTGGTTCATCCTCTGAAAGTGAAGATG  
 AAGCACTGGGTAATATCACGAGGCCTTATCCAGAACACACAATCCAGATGGCCATTGGTAGATTCTAG  
 ACAAAGAGCTATGCCTGGGAAACAAGGCAGAAGTACAGCCCCCTGTCTGCAGAGTACGACGGGTACAGC  
 ACTGAGGCATCCATGGAGGACGGAACTGCATTACAGAGAATGAGGAGGACACCTCCGCTGGATGAGCTGC  
 AGCCGCCGCTTACCAAGACGACAGCGGTTCTCCTCACCTCTCATGCACACCTCCGAAATTGGGGATGC  
 CAAGTGTGAGATTTCCACTGCAGCAATAGCCCAAGGTGTTCTTCAACAAGTGGCCAGTGAAGGAAGC  
 ACGGGTACGAGGCCGAGAGCTATACAATAAAGGATATGAAGATGATGTACCTAGCGACAGCACAGCAG  
 TCCTTAGCCCTGAAGACATGTCAGCTCAAGGATCCTCCTCACAGCTTCTAAACCTTTTGATCCAGAGCC  
 AGAAGCTAAATATGGCACATTGGATGTGACTTTGACTATGACTCTGAAAGACAGAAGCTCCTGGTAACG  
 GTGACAGCTGTACAGACATTCCAACATATAACAGGACAGGTGGCAACTCGTGGCAGGTACACCTTGTTCT  
 TTCTACCTATAAAAAACAGAGAGCCAAAACCAGCATCCAGAGAGGACCATGCCCTGTCTTACAGAAAAC  
 ATTCAAATTAACCACGTTGAATCCGAGATGATTGGAACTATGCAGTTAGGTTTAGACTATATGGTGTC  
 CATCGCATGAAGAAAAGAAAGATTGTGGGGAAAAGATTTTTATTTAACAAAGTGAATCTTCAAGGGA  
 AAATCTCGTTACCGGTGATACTGGAACCTTACATAACCTTCTGGCTGTGACTCTCAGGTGAGCTTGTC  
 TGAGGCATCCTGTGGTGACAGTACATCCTCCTGTCACTCTTCAACATGGCTCTGTTCCAGAAATCCTC  
 ATTGGGCTCCTTTACAATGCCACCACTGGAAGACTATCAGCAGAAGTGATCAAAGGCAGCCACTTCAAAA  
 ACCTGGCAGCAAACAGACCACCAATGGACTGTTCTGTTGTCTAAAACTTGTATAGGTGGCAGGTTTAA  
 TATAATCCGAGATACATATGTTAAGTTAACTGCTGAATTCATGGCCAAGAGATGTCCAAATGCAAG  
 ACATCCACCCGACAGGGCAGCCAAATCCGGTGTACAAGGAACTTTTGTTTTCAAGTGGCCTTGTTC  
 AGCTTTCTGACGTGACTCTGATACTGTGTATAACAGGCGGAGCATGAAAAGGAAGGAGATGATAGG  
 CTGGATTTCTTAGTCTAACAGCTCTGGGGAGGAGGCTCAGACACTGGACTGCAATGAAGGAGTGC  
 AAGGGACAGCAAGTGTGAGGTGGCAGCAGCTGCTGGAGTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230558 representing NM\_001301370  
 Red=Cloning site Green=Tags(s)

MAIEGGERTCGVHELICIRKVSPEAVGFLSAVGVFIVLMLLLFLYINKKFCFENVGGFPDLGSGYNTRTN  
 SQDKMYSYMDRDEPGSSSESEDEALGKYHEALSRTHNSRWPLVDSRQKSYAWETRQKYSPLSAEYDGYS  
 TEASMDGNCIQMRRTPLDELQPPPYQDDSGSPHLCTPSEIGDAKCEISHCSNSPRCSFNKCPSEGS  
 TGHEAESYHNKGYEDDVPSDSTAVLSPEDMSAQGSSSQLPKPFDPEPEAKYGLDVTDFDYDSEKLLVT  
 VTAVTDIPTYNRTGGNSWQVHLVLLPIKKQRAKTSIQRGPCPVFTETFKFNHVESEMIIGNYAVRFRLYGV  
 HRMKKEKIVGEKIFYLTKLNLQKMSLPVILEPSYNPSGCDSQVSLSEASCGDSTSSCQSLQHGSVPEIL  
 IGLLYNATTGRLSAEVIKGSFKNLAANRPPNGLFCCLKHLIGGQYIIRDTYVKLTLLNSMGQEMSKCK  
 TSTRRGQPNPVYKETFFVQVALFQLSDVTLILSVYNRRSMKRKEMIGWISLGLNSSGEEELRHWTAMKES  
 KGQQVCRWHALLES

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001301370

**ORF Size:** 1722 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\\_001301370.1](#), [NP\\_001288299.1](#)

**RefSeq Size:** 7953 bp

**RefSeq ORF:** 1725 bp

**Locus ID:** 329324

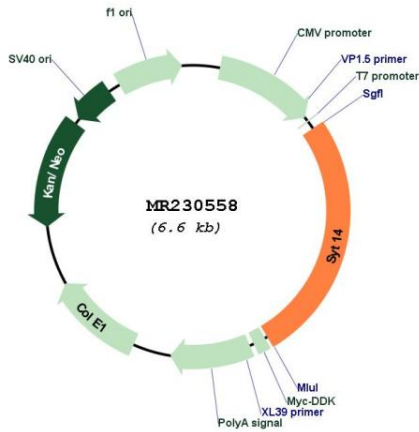
**Cytogenetics:** 1 H6

**MW:** 64.6 kDa

**Gene Summary:**

This gene encodes a member of the synaptotagmin family. The encoded protein may be involved in membrane trafficking. Disruption of a similar gene in human has been associated with autosomal recessive spinocerebellar ataxia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2014]

**Product images:**



Circular map for MR230558