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Product datasheet for MR206780

Syt4 (NM_009308) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syt4 (NM_009308) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syt4
Synonyms:	SytIV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR206780 representing NM_009308
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTCCTATCACCACCAGCCGCGTGGAATTCGATGAAATTCCCACAGTGGTGGGCATCTTCAGTGCTT
TTGGCCTCGTCTTCACTGTCTCTCTCTTTGCCTGGATCTGCTGTCAGAGAAGATCAGCCAAATCCAACAA
GACTCCTCCATACAAGTTTGTGCACGTGCTTAAAGGAGTTGATATCTACCCAGAAAACCTAAGTAGCAAA
AAGAAGTTTGGAGGAGATGACAAGAGTGAAGTGAAGGGTAAAGCCGCTCTGCCCAACCTTTCCCTGCATC
TTGACCTAGAGAAGCGAGACCTCAATGGCAACTTCCCCAAAGCCAACCCCAAAGCTGGCAGCTCTTCTGA
TCTGGAAAATGTCACCCCAAAGCTCTTTACGGAGACAGAAAAGGAGGCCAATTCCCCTGAGAGCTTGAAG
TCCAGCACTTCCCTCACGTCAGAGGAGAAACAAGAGAAGCTGGGGACACTCTTCTTGTCTCTAGAGTACA
ACTTCGAGAAGAAAGCATTTGTGGTGAACATCAAGGAAGCCCAGGGCTTACCAGCCATGGACGAGCAATC
CATGACCTCTGACCCGTACATCAAAATGACAATCTTACCAGAGAAGAAGCACAGAGTGAAGACCAGAGTG
CTCAGGAAGACGCTGGACCCTGTTTTTGATGAAACCTTCACATTCTATGGAATCCCTTATCCCCACATCC
AAGAGCTCTCCTTGCACTTTACAGTTCTGAGTTTTGACAGGTTTTCTAGAGATGATGTCATTGGAGAAGT
CCTGATTCCTCTTTCAGGGATTGAATTATCAGATGGAAAAATGTTAATGACTAGAGAGATCATCAAGAGA
AATGCTAAGAAGTCTTCTGGCCGGGGTGAACTTCTGGTCTCTCTCTGTTATCAGTCCACTACAAACACGC
TCACTGTGGTGGTCTTAAAAGCGCGGCACCTACCGAAATCTGATGTGTCTGGACTTTCAGATCCCTACGT
CAAAGTGAACCTGTACCATGCCAAGAAGAGAATCTCTAAAAAGAAGACTCACGTTAAGAAATGCACTCCC
AACGCAGTGTTCAATGAACTGTTTGTCTTTGATATTCCTTGTGAGAGTCTTGAAGAAATCAGTGTTGAAT
TCTTGGTTTTGGATTCTGAAAGGGGATCCCGAAATGAGGTGATTGGACGGTTGGTCCTGGGTGCCACAGC
AGAAGGAAGCGGTGGGGGGCACTGGAAGGAGATCTGTGACTTCCCCAGGAGACAAATTGCTAAGTGGCAC
ATGCTCTGTGATGGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206780 representing NM_009308
Red=Cloning site Green=Tags(s)

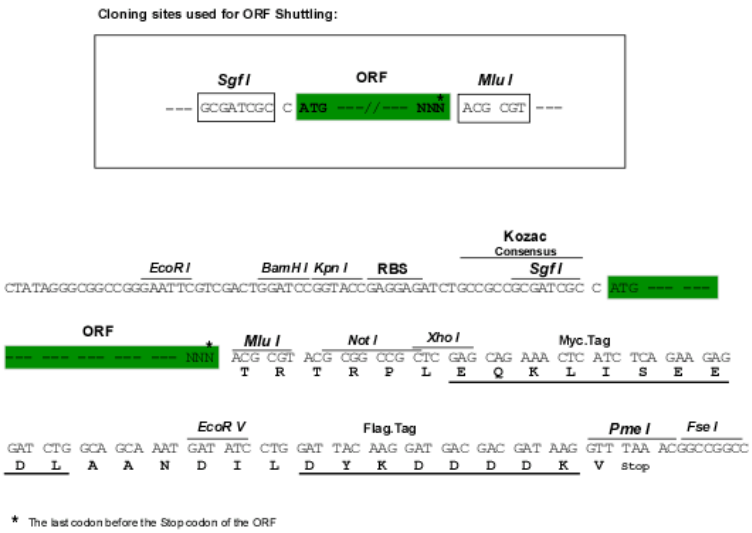
MAPITTSRVEFDEIPTVVGIFSAFGLVFTVSLFAWICCQRRSAKSNKTPPYKFVHVLKGVDIYPENLSSK
KKFGGDDKSEVKGKAALPNLSLHLDLEKRDLNGNFPKANPKAGSSSDLENVTPKLFTETEKEANSPESLK
SSTSLTSEEKQEKLGTLFLSLEYNFEKKAFVVNIKEAQGLPAMDEQSMTSDPYIKMTILPEKKHRVKTRV
LRKTLDPVFDETFTFYGIPYPHIQELSLHFTVLSFDRFSRDDVIGEVLIPLSGIELSDGKMLMTREIIKR
NAKKSSGRGELLVSLCYQSTTNTLTVVVLKARHLPKSDVSGLSDPYVKVNLYHAKKRISKKKTHVKKCTP
NAVFNELFVFDIPCESLEEISVEFLVLDSERGSRNEVIGRLVLGATAEGSGGGHWKEICDFPRRQIAKWH
MLCDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9005_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009308

ORF Size: 1275 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_009308.3, NP_033334.2

RefSeq Size: 3901 bp

RefSeq ORF: 1278 bp

Locus ID: 20983

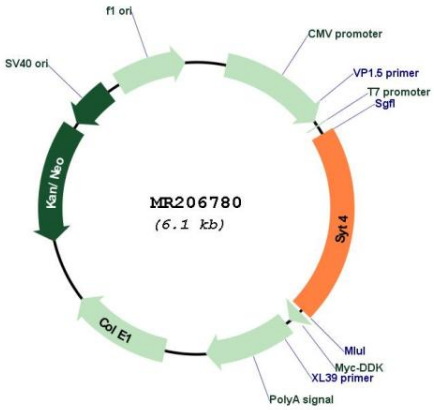
UniProt ID: P40749

Cytogenetics: 18 17.75 cM

MW: 48.1 kDa

Gene Summary: The protein encoded by this gene belongs to the synaptotagmin family. Members of this family are multi-domained, integral membrane proteins of synaptic vesicles, and are thought to serve as Ca2+ sensors in the process of vesicular trafficking and exocytosis. This gene is primarily expressed in the nervous tissues. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MR206780