

Product datasheet for **MC222782**

Syne1 (NM_022027) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syne1 (NM_022027) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Syne1
Synonyms:	8B; A330049M09Rik; BE692247; C130039F11Rik; CPG2; mKIAA1756; myne-1; Myne1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC222782 representing NM_022027
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGGTGGCAGAGACTTGCATGGCCCGAGGATGGCAGAGACAGCAGTGTGGATGCAGATCTCCCAG
 ACTGCGACTGCGATGTCTCCAGGGTGAAGAAGCTAAAGGAGACGCTGGTTGCTGTGCAGCAGCTGGACAA
 GAACATGGGCAGCCTGAGGACTTGGCTGGCCACATGGAGTCAGAGTTGGCCAAGCCCATAGTCTATGAT
 TCTTGTAACTCTGAAGAAATACAGAGGAAACTGAATGAGCAGCAGGAGCTCCAGAGAGACATCGAGAAAC
 ACAGCACAGGTGTGCGCTCCGCTCAACCTGTGTGAGGTTCTGCTGCATGACTGCGACGCTGTGCCAC
 CGACGCAGAGTGTGACTCCATCCAGCAGGCCACTCGAACCTGGACCGCGGTGGAGGAACATCTGCGCC
 ATGTCCATGGAGAGGAGACTCAAATTTGAAGAGACGTGGCGACTGTGGCAGAAGTTTCTGGATGACTATT
 CTCGCTTTGAAGACTGGCTGGAGGTTTCAGAAAGGACGGCTGCTTCCCCAGTCTTCCGGGGTGTCTA
 TACAGTTGCCAAGGAGGAGCTGAAGAAGTTTGGAGCTTCCAGCGCAGGTCCATGAGAGCTGACCCAA
 CTAGAGCTTATCAACAAACAGTACCGGCCCTGGCCAGAGAGAATCGCACAGACTCCGCCTGCAGCCTCA
 GGCAGATGGTCCATGGGGCAACCAGAGATGGGACGACCTACAGAAGCGGGTACCTCCATCTTGGCGAG
 GCTCAAGCACTTCATTAGCCAGCGTGAGGAGTTCGAGACTGCCCGGACAGCATTCTTGTCTGGCTCACA
 GAGATGGATCTGCAGCTCACCAATTTGAACACTTTTCGGAATGTGACGTTCAAGCTAAAATAAGCAAC
 TCAAGGCTTTCCAACAGGAGATCTCACTGAACCACAATAAAATCGAGCAGATCATTGCCAGGGGGAGCA
 GCTGATAGAGAAGAGCGAGCCACTGGATGCCGCTGTATCGAGGAGGAAGTGGACGAGCTCAGACGCTAC
 TGCCAGGAGGCTTTGGACGTGTGGAAGATATCACAAGAACTGATCCGCTGCCTCTGCCAGATGACC
 ATGACCTCTCAGACCGAGAAGTCTCGAAGACTCCAGGCTCTTTCAGACCTCCGCTGGCAGGACCC
 GTCTGCAGATGGCATGCCCTCCACAGCCTTCTTCCAACCCCTCCCTCTCCCTTCCCTCAGCCCTCCGG
 AGTGAGCGGTGAGGCGAGATACGCCGGCAGCGTGGACTCCATCCCTGGAATGGGACCACGATTACG
 ACCTCAGTCGAGACCTAGAGTCAGCATCCGAACCTGTCCTCAGAAGATGAAGAAGCGGAGGAAGACAA
 GGAGTTTACCTCAGGGGAGCTGTTGGCTGTGACGGGATCCCAGCTCACTGGAGTCACAGATGAGGCAA
 CTGGACAAAGCCCTGGATGACAGCCGCTCCAGATACAGCAAACCGCAAATATCCTCAGAAGCAAACCC
 CCACAGGGCCAGACCTGGACACCAGCTACAAGGGCTACATGAAGCTGCTGGGCGAGTGCAGTGGCAGCAT
 AGATCCGTGAGGAGACTGGAGCACAAGCTGGCGGAGGAAGAGAGCTTCTGCTCGTTAACTCAAC
 AGCACAGAGACTCAGACAGCTGGTGAATTTGACCGCTGGGAGCTCCTGCAGGCCAGGCAATGAGCAAGG
 AGTTGAGGATGAAGCAGAACCTTCAGAAGTGGCAGCAGTTAATTTCTGACCTCAACAACATCTGGGCTG
 GCTAGGAGAGACAGAGGAGGAGCTGGACAGGCTCCAGCACCTGGCGCTCAGCACTGACATCCACACCATC
 GAGTCTCACATCAAAAAGCTCAAGGAGCTCCAGAAAGCGGTGGACCACCGCAAAGCCATCATCTCTCCA
 TCAACCTCTGCAGCTCTGAGTTCACCCAGGCTGACAGCAAAGAGAGTCAAGCTGCAGGATCGTTATC
 CCAGATGAATGGGAGATGGGATCGAGTGTGCTCTCTGCTGGAGGACTGGAGAGGCTTGTGCAGGATGCA
 CTGATGCAGTGCAGGAGTTCATGAAATGAGCCATGCCTTGCTTCTCATGCTAGAAAACATTGACAGAA
 GGAAAAATGAAATGTCCAATTGATTCACCCCTTGACCCAGAGACACTCAGGACCATCACAAGCAACT
 CATGCAAATAAAGCAGGAGTTGCTGAAGTCCCAACTCAGAGTGGCCTCACTACAAGACATGTCTCGCCAA
 CTCTTGGTGAATGCTGAAGGTTCAAGTTGCTAGAAAGCCAAAGAAAAGGTCCATGTGATTGGAAACCGGC
 TCAAACCTCTCCTGAAGGAGTCAAGCATCATATCAAGGATCTTGAGAAGTTACTAGACATGTCAAGCAG
 TCAGCAGGATTTGTCATCATGGTCTTCTGCAGATGAGCTGGACACCTCAGGATCTGTGAGTCCCACATCC
 GGAAGAAGTACCCCAAACAGACAGAAATCGCCACGAGGCAAAATGTAGTCTCTCACAGCCTGGACCCTCTG
 TCAGCAGCCAAAGAGCAGGTCCACAAGAGATGGCTCCGATTCCTCCGTTCTGACCCAGGCCAGAACG
 GGTGGTTCGAGCCTTCTGTTCCGATCCTCCGGCAGCTCTCCCTTTCAGCTGCTCCTGCTGCTGCTT
 ATTGGACTCACCTGCCTTGTACCATGTCAGAGAAAGACTACAGCTGTGCCCTCTCAACAACCTTTGCC
 GATCCTTCCATCCGATGCTCAGATATACCAACGGTCTCCTCCACT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:	NM_022027
Insert Size:	2850 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:	<ol style="list-style-type: none">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_022027.2 , NP_071310.2
RefSeq Size:	4830 bp
RefSeq ORF:	2850 bp
Locus ID:	64009
Cytogenetics:	10 A1
Gene Summary:	<p>Multi-isomeric modular protein which forms a linking network between organelles and the actin cytoskeleton to maintain the subcellular spatial organization. As a component of the LINC (Linker of Nucleoskeleton and Cytoskeleton) complex involved in the connection between the nuclear lamina and the cytoskeleton. The nucleocytoplasmic interactions established by the LINC complex play an important role in the transmission of mechanical forces across the nuclear envelope and in nuclear movement and positioning. May be involved in nucleus-centrosome attachment. During interkinetic nuclear migration (INM) at G2 phase and nuclear migration in neural progenitors its LINC complex association with SUN1/2 and probably association with cytoplasmic dynein-dynactin motor complexes functions to pull the nucleus toward the centrosome; SYNE1 and SYNE2 seem to act redundantly in cerebellum, midbrain, brain stem, and other brain regions except cerebral cortex and hippocampus. Required for centrosome migration to the apical cell surface during early ciliogenesis. May be involved in nuclear remodeling during sperm head formation in spermatogenesis; a probable SUN3:SYNE1/KASH1 LINC complex may tether spermatid nuclei to posterior cytoskeletal structures such as the manchette.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and lacks a large portion of the 5' coding region compared to variant 4. These differences result in the use of an alternate start codon, compared to variant 4. The encoded isoform (2) is shorter and has a distinct N-terminus compared to isoform 4.</p>