

Product datasheet for MC224453

Syne1 (NM_153399) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syne1 (NM_153399) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Syne1
Synonyms:	8B; A330049M09Rik; BE692247; C130039F11Rik; CPG2; mKIAA1756; myne-1; Myne1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224453 representing NM_153399 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAACCTCCAGAGCATCTTCCCGGTCCCATCGGGACATACCAATGTGATGCAGAGGCTACAAGATG
AACAAGAGATTGTACAGAAACGTACCTTACAAAAATGGATCAATTCATCTGGCCAAGCGGAAGCCTCC
CATGGTGGTGGATGACCTTTTTGAAGACATGAAAGATGGCATCAAGCTGCTTGTCTTACTGGAGGCTCTG
TCTGGGCAGAACTGCCTTGTGAACAAGGACACCGGGTGAAGCGTATTCATGCTGTGGCTAACATTGGCA
CCGCACTCAAATTCCTTGAAGGAAGGAAGTCCATGTACAGAGGATCACCGATTAATTAGTCAACATTAA
TGCTACTGATATTGCTGATGGCCGACCATCAATCGTTCTTGGGCTGATGTGGACCATTATCCTGTATTTT
CAGATAGAAGAGTTGACCAGCAACCTACCACAGCTGCAGTCTCTATCCAGCAGTGCTTCTCTGTGGACA
GCATGGTCAGCACCGAGACTGCCAGCCCACCCAGCAAACGAAAGGTGGCTGCCAAGATCCAGGGAATGC
CAAGAAAACCTCTATTAAGTGGGTCCAGCACACAGCAGCAAGCAGATGGGAATAGAAGTGAAAGACTTC
GGGAAGAGTTGGAGAAGTGGGTGGCCCTTTCATTCAGTCATCCACGCTATCCAGCCTGAGCTGGTGGACC
TGGAGAAGGTGAAGACTAGATCTAACAGGGAAAACCTGGAGGACGCCCTTACGATCGTGAACACAGCT
AGGCATCCCAGACTGCTTGATCCCGAAGATGTGGATGTGGACAAGCCAGATGAAAAGTCTATCATGACT
TACGTGGCCAGTTTCTAACACAATACCCTGACATTCATGGTGCAGGCTGTGATGGGCAAGAGGATGATA
GGGATGACAGACTAATTTTGAAGGAAAACAAAAGTTGGATAGAACAATTTGAGAGAGATTTTACAAGGGC
ACAGATGACCGAATCAAGTCTGCAGGACAAATATCAGGCATTTAAGCACTTACAGATTCAATATGAAATG
AAAAGGAAAACAAGTGGAGCATATAATACAGCCATTGCAAAGAGATGGCAAACGACGCTCGACCAAGCCT
TGGTCAAGCAGTCTGGGAGAGAGTATCATCCCGCTCTTCGATTGGCATATACAGCTGGATAAATCTCT
CCCTGCACCTCTGGGCACTATAGGTGCTTGGCTATACAGGGCAGAAGTGGCCCTGAGAGAAGAGATCACC
ATTCAGCAGGTTACAGAGGAGACAGCAAACACAATCCAACGGAACTTGAGCAACATAAGGATCTGCTTC
AAAATACAGATGCCACAAAAGGGCGTTCCATGAAATCTACCAGACCAGTCTGTCAATGGGATCCCGAT
GCCTCCTGATCAGCTAGAGGACATGGCTGAGAGGTTTCATTTTGTGTCCTCCACATCCGAGCTGCACTTA
ATGAAAATGGAGTTTCTCGAACTGAAGTACCGTCTGCTGTCCCTGCTGGTCTCGCTGAGTCAAAGCTGA



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AGTCCTGGATCATCAAGTATGGGAGGCGAGAGTCTGTGGAGCTGCTGCTGCAAAGCTATATCTCTTTTAT
 AGAAAACAGCAAGTTCTTTGAACAGTATGAAGTGACATACCAGATCCTGAAAACAGACAGCTGACATATAC
 GTCAAAGCAGAGGGCTCAGTGGAGGAAGCTGAGAACGTGATGAAATTCATGAGTGAAGCCACTGCCAGT
 GGAGGAACCTCTCCGTGGAAGTGCAGGAGTACGGAGCATGCTGGAGGAGGTGATCTCCAAGTGGGATCG
 CTATGGTGATACCGTGGCTAGTCTCCAAGCCTGGCTAGAAGATGCAGAGAAAAATGCTAAGCCAATCAGAA
 CATGCCAAGAAGGATTTTTTCGAAATCTGCCTCACTGGATTGAGTCTGAGACCTTAACAGCAGTTGCTCTTATTGAA
 GGAATTTCTGATTGAAACCTGTGATGAGATTGTTTCTCGAGACCTTAACAGCAGTTGCTCTTATTGAA
 CGGTTCGATGGAGGGAGCTTTCATGGAAGTCAAGCAATATGCAAGAGCAGACGAGATGGACAGAATGAAG
 AAAGAGTATATAGACGCTACTACCACCCTCTTTGGTTTTGCAACTGAAGCCACAGGAAACTCTCTGAGC
 CTTTAGAAGTCTCTTTTCAATGTCAAGTTATTAATTCAAGACTTGGAGGATCTGGAGAAGAGGGTGCC
 TGTGATGGATGCTCAGTACAAGATGATTGCCAAGAAGGCACATCTCTTTGCCAAAGAAAGTCCCAAGAA
 GAAGCGAATGAAATGCTTACAACCATGTCCAAGCTCAAAGAACAGCTCTCCAAGTCAAAGAATGTTGCT
 CCCCAGTGTGTACGAGGCCAGCAACTGACGGTTCCTTTGGAAGAACTGGAGACGCAAAACACGTCCTT
 CTATGACTCCCTTGAAAAATCAATGAGATTCTATCAGTTCTTGAGCAAGAAGCACAATCTAGCACTCTT
 TTTAAGCAAAAACACCAGGAAGTGTAGCTTCTCAAGAGAAGTGAAGAAATCCTTGACACTCATAGAGA
 AGGGCAGCCAAAGTGTTCAGAAGCTGGTACCTCGAGCCAGGCAGGAAAGCCCTGGGATCACACAAAAC
 GCAGAAGCAGATAGCAGATGTCCATCATGCATTCCAGAGCATGATCAAGAAAACCTGGAGACTGGAAGAAG
 CACGTGGAAGCCAACAGCCGTTTGTGAAAGAAATTTGAGGAGTCTCGGGCCGAGTTGGAGAAGGTGCTTA
 GGGTTGCTCAGGAGGGCTAGAGGAGAAGGGGACCCCGAGGAAGTCTTCGGAGACACAGGAGTTCTT
 CAGCCAACTGGACCAGAGGGTCTCAATGCTTTCCTAAAAGCCTGTGATGAGCTAACTGACATCTCCCA
 GAGCAGGAGCAACAAGGCCTACAGGAGGCTGTTGAAAGCTACACAAACAGTGAAGGATCTTCAGGGAG
 AAGCGCCTTATCATTGCTCCATCTGAAATCGCTGTGGAGAAAGACAGATTCTCAGTGTGTGGAAGA
 GTGCAGAGCTGAGCTGGAGCAAGAGACCAAGCTGGCTCCTCAAGAAGGCAGCGAGAAGATCAAAAGGAA
 CACAGGGTTTTCTCAGTGACAAGGGTCCCTACCATCTCTGTGAGAAGAGACTACAGCTCATAGAGGAAT
 TGTGTGGGAAACTCCCGTCCAGGACCCAGTAAGGGACACATGTGGAGCCTGTACACAGCTCTCAAAGA
 GCTCAAAGCTTCCATTGACAACACTTACACAATGCTCGTGGATGACCCAGACAAGTGAAGGACTATACC
 AGCAGGTTTTCTGAGTTCTCTCTTGGGTGCTGCAAAGAAGGCATGTTTGAAGAAAATCAAGGATGAGC
 CCATTGACTGGCAACCACGACGAGGTTAAGCATATGGTGGATGAGATCAGAAATGACATTACCAAGAA
 AGGAGAGAGTCTCAGCTGGCTGAAATCCAGGCTTAAGTATTTGATTGATTTTCTCAGAGAATGAAGCC
 CAAAAGCGAGGAGATGAGCTGGCAGAATTATCAAGCTCTTCAAGGCTCTTGTGGCATTACTGTCAGAGG
 TCGAAAAGCTTCAAGCAACTTTGGAGAATGCGTTCAGTACAAGGAAATCGTGAAGGTTCCCTTGAGGG
 GTTGATATCGGGCCCCAAGAAAGCAAGGAAGAGGCTGAGATGATCCTGGACTCGAAAAATCTGCTTGAG
 GCACAGCAGTTGCTCCTGCATCACCAGCAAAAAGACAAAGATGATCTCAGCAAAGAAGAGAGACCTCCAGG
 AGCAGATGGAGCAGGCACAGCAGGGTGGGCAGGCAGGCCAGGTCAAGAGGAGCTGCGGAAGCTGGAGAG
 CACCCTCACAGGCCTGGAGCAGAGCAGGGAGAGGCAGGAACGTGCGATCCAGGTGAGTTGAGGAAATGG
 GAGCGTTTTGAGACAAACAAGGAGACGGTGGTTCAGATATCTTTCCAGACAGGTTCCAGCCACGAACGCT
 TCTTGAGCTTTCAGCAGTTTGGAAAGCCTGTCATCAGAGTTGGAGCAGACAAGGAGTTTTCTAAGAGGAC
 GGAAAGCATTGCCACCCAGGCTGAGAACCTGGTCAAGGAAGCCGAGAGTTGCCGCTGGGCCCCAGGAAT
 AAGCGTGTGCTTTCAGCGGCAGGCCAAGTCAATCAAGGAGCAGGTACAACCCTGGAAGACACGCTTGAAG
 AAGAGTATGTGCTTACCACCTTCAA

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_153399
 Insert Size: 4296 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_153399.2 , NP_700448.2
RefSeq Size:	6982 bp
RefSeq ORF:	4296 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 (1) differs in both UTRs and has multiple differences in the coding region compared to variant 4. These differences result in the use of an alternate start codon, compared to variant 4. The encoded isoform (1) is shorter and has distinct N- and C-termini compared to isoform 4.</p>