

Product datasheet for **MC222440**

Syne3 (NM_172500) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syne3 (NM_172500) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Syne3
Synonyms:	KASH3; nesprin-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>MC222440 representing NM_172500
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACAACACGAAGGGGCCCGAGCGGCCCTGGAGGCAAGGCTTCGAGAGACAGAGTCGCATCGAGTGGG
 TGTGGCTGCACTGGAGTGAGTACCTGCTGGCCAGGATGAGTTTTACCGCTGGTTCCAGAAGATGGTGGT
 CGCACTGGAGCCCCCGTGGAGCTGCAGCTGGGCTTGAAGGAGAAGCAATGGCAGCTGAGCCACGCCAG
 GTGCTGCTGCACAACGTGGACAATCAGGCTGTGCTCCTGGACAGGCTGTTGGAGGAGCGGGCTCCCTGT
 TCAGCAGGATCGGAGACCCAGCGTGGATGAAGATGCCAGAAGAGGATGAAGGCTGAGTACGATGCCGT
 GAAGGCCAGAGCCAGCGCAGGGTGGACCTCCTGGCCAGGTGGCCAGGACCATGAGCAGTACCGGGAG
 GACGTGAATGAGTCCAGCTGTGGCTGAAGGCGGTGGTGGAGAAGGTGCACAGCTGTCTGGGGCGGAACT
 GCAAGCTGGCCACAGAATTCGCTCTCTACGCTGCAGGACATCGCCAAGGATTTCCCTAGGGGTGAGGA
 GTCTCTGAAAAGATTGGAGGAACAGGCTGTGGGTGTCATTCAAAACACCTCTCCCTTGGGTGCAGAGAAG
 ATCTCAGGGGAGCTGGAGGAGATGCGGGGTGTCCTGGAGAAGCTGAGAGTCTCTGGAAAGAGGAGGAAG
 GGAGGCTGCGGGGCTGCTCCAGTCCAGGGGGACTGTGAGCAGCAGATCCAACAGCTGGAGGCAGAACT
 GGGAGACTTCAAGAAAAGCCTTCAGAGGCTGGCCAGGAGGGCTTGGAGCCCACGGTGAAGACAGCCACA
 GAGGATGAGTGGTGGCCAGTGGAGGCTGTTCTCGGGGACTCGGGTGCAGTGGCTTCCAGGAACCCC
 GTGTAGACCGGTTACAACTCACTGAAGAACTTGTACACCTCCCGGACCTGCAGTCACTCTCTGACAG
 CGTGGTAGCCACCATTCAGGAATACCAAGTATGAAGGGGAAGAATACCAGGCTCCACAATGCGACCCGG
 GCAGAGCTGTGGCAGCGTTTCCAGCGGCCCTAAATGACCTGCAGCTGTGAAGGCCCTGGCCAGAGGC
 TCCTGGACATCACGGCCAGCCTGCCTGACCTGGCCTCCATTACACCTTTCTACCCAGATTGAGGGCGG
 CCTCACGGAAAGCTCTCGCTGAAAGAGCAGCTGGCGATGCTGCAGCTGAAGACCGACCTGCTGGGCAGC
 ATCTTTGGCCAGGAGAGAGCAGCCACCCTCCTGGAGCAGGTGACAAGTTCTGTGAGGGACAGAGACCTAC
 TGCATAACAGCCTTCTTCAGCGAAGAGCAAATTCAGAGCCTGCTTGTTCAGCACAAGGACTTTGGGGT
 GGCTTTTGTATCCCTAACAGGAAGCTCCTAGACCTCCAGGCCAGGATCCAAGCAGAGAAAGGGCTTCCG
 AGGGACCTTCTGGAAAGCAGGTCCAGCTCCTAAGGTTGCAGGGGCTGCAGGAAGAGGGGCTGGATCTGG
 GGACACAGATCGAGGCTGTGAGGCTCTTGCCCATGGAACTCTAAGCACCAGCAGAAAGTAGACCAGAT
 CTCTGTGACCAGCAAGCCCTGCAGAGGTCCTGGAGGATCTCGTGGACAGGTGCAGCAGAACGTACGG
 GAACATTGTACCTTCAGTACAGGCTGTGGAGCTGCAGCTATGGATCACCATGGCCACACAGACATTAG
 AGTCACACCAAGGGGATGTGCGTCTGTGGGATGCTGAGTCCCAAGAGGCTGGACTCGAGACGCTGCTGTC
 TGAAATCCAGAGAAAGAGGTCCAGGTGTCCCTGCTCCAAGCACTGGGCCAGCTTGTGATGAAGAAGTCT
 TCCCCAGAAGGGGCAACCATGGTCCAGGAGGAGCTGAGGAAGCTGATGGAGTCTTGGCAGGCCCTGCGGC
 TGCTAGAGGAGAACATGCTGAGTCTCATGAGAAACCAGCAGCTGCAGAGGACAGAGGTGGACACGGGGAA
 GAAGCAGGTGTTACCAACAACATCCCAAAGGCCGGCTTTCTCATCAACCTCAGGACCCCATTTCCAGG
 AGACAGCATGGGGCAAACCCACTGGAAGGACACGACCTCCCTGAAGATCATCCCCAGCTCCTGAGGGACT
 TTGAACAGTGGCTGCAGGCAGAAAACCTCAAGCTACGTAGAATCATACAATGAGAGTGGCCACAGCCAA
 GGACTTGAGGACCAGAGAGGTGAAGCTGCAGGAGCTGGAGGCCGAATCCAGAAGGCCAGCACCTTTT
 GAGAACCTGCTTCTGCTCAGGCCGCAAGGGACCCTCCAACGAGCTGGAAGATCTGCGCTACCGTGGGA
 TGCTGTACAAGTCCAAGCTCAAGGACTCTGGCCACCTGCTGACCGAGAGTTCTCCGGGGGAGCTGACTGC
 ATTCCAGAAGAGTCGGAGGCAGAAGCGGTGGAGTCCCTGCTCTCTCCTACAGAAAGCATGCCGTGTGGCA
 CTGCCATTGCAGCTGTTGCTCCTGCTCTTTCTGCTGCTGTTCTGCTGCCGGCCGGCAGGAGGAGC
 GCAGCTGCGCCCTGGCCAACAATTCGCCCGCTCCTTTGCGCTCATGTTCCGGTACAATGGCCCCCGCC
 CACCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_172500

Insert Size:	2667 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_172500.3 , NP_766088.2
RefSeq Size:	5097 bp
RefSeq ORF:	2667 bp
Locus ID:	212073
UniProt ID:	Q4FZC9
Cytogenetics:	12 E
Gene Summary:	<p>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. Probable anchoring protein which tethers the nucleus to the cytoskeleton by binding PLEC which can associate with the intermediate filament system. Plays a role in the regulation of aortic epithelial cell morphology, and is required for flow-induced centrosome polarization and directional migration in aortic endothelial cells (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate 5'-terminal exon, lacks several exons in the 5' and central coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (beta) has a distinct and shorter N-terminus, compared to isoform alpha.</p>