

## Product datasheet for **MC222923**

### Syne3 (NM\_001042699) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Syne3 (NM_001042699) 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: >MC222923 representing NM\_001042699  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACGCAGCAGCCCCAGGAGACTTTGAGAGGAGCGTGGAGGATGCCAGGCCTGGATGAAGGTGATAC  
 AGGAGCAGCTTCAGGTCAATGACAACACGAAGGGGCCCGAGCGGCCCTGGAGGCAAGGCTTCGAGAGAC  
 AGAGAAAATCTGCCAGCTGGAGTCTGAAGGAATGGTGAAGGTGGAAGTGGTCTCGCGGGCGCGGAGGCC  
 CTCTTGCAACTTGCAGGAGGGCCAGAAAACCTGAGATCCTGGCCCGGCTGAGGGATATCAAGTCTCAGT  
 GGGAGGAGACGGTCACTACATGACCCACTGCCACAGTCGCATCGAGTGGGTGTGGCTGCACTGGAGTGA  
 GTACCTGCTGGCCAGGATGAGTTTTACCCTGGTTCAGAAAGATGGTGGTGCAGTGGAGCCCCCGT  
 GAGCTGCAGCTGGGCTTGAAGGAGAAGCAATGGCAGCTGAGCCACGCCAGGTGCTGCTGCACAACGTGG  
 ACAATCAGGCTGTCTCCTGGACAGGCTGTTGGAGGAGGGCGGCTCCCTGTTGAGCAGGATCGGAGACCC  
 CAGCGTGGATGAAGATGCCAGAAGAGGATGAAGGCTGAGTACGATGCCGTGAAGGCCAGAGCCAGCGC  
 AGGGTGGACCTCCTGGCCAGGTGGCCAGGACCATGAGCAGTACCGGGAGGACGTGAATGAGTCCAGC  
 TGTGGCTGAAGGCGGTGGTGGAGAAGGTGCACAGCTGTCTGGGGCGGAATGCAAGCTGGCCACAGAAGT  
 TCGTCTCTACGCTGCAGGACATCGCCAAAGATTTCCCTAGGGGTGAGGAGTCTCTGAAAAGATTGGAG  
 GAACAGGCTGTGGGTGTCATTCAAAACACCTCTCCCTTGGGTGCAGAGAAGATCTCAGGGGAGCTGGAGG  
 AGATGCGGGGTGTCTGGAGAAGCTGAGAGTCTCTGAAAGAGGAGGAAGGGAGGCTGCGGGCCCTGCT  
 CCAGTCCAGGGGGACTGTGAGCAGCAGATCCAACAGCTGGAGGCAGAAGTGGGAGACTTCAAGAAAAGC  
 TTTCAGAGGCTGGCCAGGAGGGCTTGGAGCCACGGTGAAGACAGCCACAGAGGATGAGCTGGTGGCC  
 AGTGGAGGCTGTTCTCGGGGACTCGGGCTGCAGTGGCTTCAGAGGAACCCCGTGTAGACCGTTACAAAC  
 TCAACTGAAGAAAACCTTGTACCTTCCCGGACTGCAGTCACTCTGACAGCGTGGTAGCCACCATTCAG  
 GAATACCAAAGTATGAAGGGGAAGAATACCAGGCTCCACAATGCGACCCGGGCGAGAGCTGTGGCAGCGTT  
 TCCAGCGGCCCTAAATGACCTGCAGCTGTGGAAGGCCCTGGCCAGAGGCTCCTGGACATCACGGCCAG  
 CCTGCCTGACCTGGCCTCATTACACCTTTCTACCCAGATTGAGGGCGGCCCTCACGAAAAGCTCTCGC  
 CTGAAAGAGCAGCTGGCGATGCTGCAGCTGAAGACCGACCTGCTGGCAGCATCTTTGGCCAGGAGAGAG  
 CAGCCACCCTCCTGGAGCAGGTGACAAGTCTGTGAGGGACAGAGACCTACTGCATAACAGCCTTCTTCA  
 GCGGAAGAGCAAACCTCAGAGCCTGCTTGTTCAGCACAAGGACTTTGGGGTGGCTTTTGATCCCCTAAAC  
 AGGAAGCTCCTAGACCTCAGGCCAGGATCCAAGCAGAGAAAGGGCTTCCGAGGGACCTTCTGAAAGC  
 AGGTCCAGCTCCTAAGTTGCAGGGGCTCAGGAAGAGGGGCTGGATCTGGGGACACAGATCGAGGCTGT  
 GAGGCCTCTTGCCATGGGAACCTAAGCACCAGCAGAAAAGTAGACCAGATCTCCTGTGACCAGCAAGCC  
 CTGCAGAGGTCCCTGGAGGATCTCGTGGACAGGTGTGAGCAGAACGTACGGGAACATTGTACCTTACGTC  
 ACAGGCTGTGGAGCTGCAGCTATGGATCACCATGGCCACACAGACATTAGAGTACACCAAGGGGATGT  
 GCGTCTGTGGGATGCTGAGTCCCAAGAGGCTGGACTCGAGACGCTGCTGTCTGAAATCCCAGAGAAAAGAG  
 GTCCAGGTGTCCCTGCTCCAAGCACTGGCCAGCTTGTGATGAAGAAGTCTTCCCAGAAGGGGCAACCA  
 TGGTCCAGGAGGAGCTGAGGAAGCTGATGGAGTCTTGGCAGGCCCTGCGGCTGTAGAGGAGAACATGCT  
 GAGTCTCATGAGAAAACAGCAGCTGCAGAGGACAGAGGTGGACACGGGGAAGAAGCAGGTGTTACCAAC  
 AACATCCCAAAGGCGGCTTTCTCATCAACCCTCAGGACCCATTCCCAGGAGACAGCATGGGGCAAAAC  
 CACTGGAAGGACACGACCTCCCTGAAGATCATCCCAGCTCCTGAGGGACTTTGAACAGTGGCTGCAGGC  
 AGAAAACCTCAAGCTACGTAGAATCATACAATGAGAGTGGCCACAGCCAAGGACTTGGAGACCAGAGAG  
 GTGAAGCTGCAGGAGCTGGAGGCCGAATCCCAGAAGGCCAGCACCTCTTTGAGAACCTGCTTCTGCTCA  
 GGCCGGCAAGGGACCCCTCCAACGAGCTGGAAGATCTGCGCTACCGGTGGATGCTGTACAAGTCCAAGCT  
 CAAGGACTCTGGCCACCTGCTGACCGAGAGTCTCCGGGGAGCTGACTGCATTCCAGAAGAGTCGGAGG  
 CAGAAGCGGTGGAGTCCCTGCTCTCTCCTACAGAAAAGCATGCCGTGTGGCACTGCCATTGCAGCTGTTGC  
 TCCTGCTCTTTCTGCTGCTGCTTCTGCTGCCGGCCGGCAGGAGGAGCGCAGCTGCGCCCTGGCCAA  
 CAACTTCGCCCGCTCTTTGCGCTCATGCTTCGGTACAATGGCCCCCGCCACC**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001042699
<b>Insert Size:</b>	2928 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001042699.2</a></u> , <u><a href="#">NP_001036164.1</a></u>
<b>RefSeq Size:</b>	5452 bp
<b>RefSeq ORF:</b>	2928 bp
<b>Locus ID:</b>	212073
<b>UniProt ID:</b>	<u><a href="#">Q4FZC9</a></u>
<b>Cytogenetics:</b>	12 E
<b>Gene Summary:</b>	<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 (1) represents the longer transcript and encodes the longer isoform (alpha).</p>