

Product datasheet for **MR227572**

Syne3 (NM_172500) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syne3 (NM_172500) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide
Sequence:

>MR227572 representing NM_172500
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGACAACACGAAGGGGCCCGAGCGGCCCTGGAGGCAAGGCTTCGAGAGACAGAGTCGCATCGAGTGGG
TGTGGCTGCACTGGAGTGAGTACCTGCTGGCCAGGATGAGTTTTACCGCTGTTCCAGAAGATGGTGGT
CGCACTGGAGCCCCCGTGGAGCTGCAGCTGGGCTTGAAGGAGAAGCAATGGCAGCTGAGCCACGCCAG
GTGCTGCTGCACAACGTGGACAATCAGGCTGTGCTCCTGGACAGGCTGTTGGAGGAGCGGGCTCCCTGT
TCAGCAGGATCGGAGACCCAGCGTGGATGAAGATGCCAGAAGAGGATGAAGGCTGAGTACGATGCCGT
GAAGGCCAGAGCCAGCGCAGGGTGGACCTCCTGGCCAGGTGGCCAGGACCATGAGCAGTACCGGGAG
GACGTGAATGAGTCCAGCTGTGGCTGAAGGCGGTGGTGGAGAAGGTGCACAGCTGTCTGGGGCGGAAT
GCAAGCTGGCCACAGAATTCGCTCTCTACGCTGCAGGACATCGCCAAGGATTTCCCTAGGGGTGAGGA
GTCTCTGAAAAGATTGGAGGAACAGGCTGTGGGTGTCATTCAAAACACCTCTCCCTTGGGTGCAGAGAAG
ATCTCAGGGGAGCTGGAGGAGATGCGGGGTGTCCTGGAGAAGCTGAGAGTCTCTGGAAAGAGGAGGAAG
GGAGGCTGCGGGGCTGCTCCAGTCCAGGGGGACTGTGAGCAGCAGATCCAACAGCTGGAGGCAGAAT
GGGAGACTTCAAGAAAAGCCTTCAGAGGCTGGCCAGGAGGGCTTGGAGCCCACGGTGAAGACAGCCACA
GAGGATGAGCTGGTGGCCAGTGGAGGCTGTTCTCGGGGACTCGGGCTGCACTGGCTTACAGGAACCCC
GTGTAGACCGGTTACAACTCAACTGAAGAACTTGTACCTTCCCGGACCTGCAGTCACTCTGTACAG
CGTGGTAGCCACCATTCAGGAATACCAAGTATGAAGGGGAAGAATACCAGGCTCCACAATGCGACCCGG
GCAGAGCTGTGGCAGCGTTTCCAGCGGCCCTAAATGACCTGCAGCTGTGGAAGGCCCTGGCCAGAGGC
TCCTGGACATCACGGCCAGCCTGCCTGACCTGGCCTCCATTACACCTTTCTACCCGAAATGGGGCGG
CCTCACGGAAAGCTCTCGCTGAAAGAGCAGCTGGCGATGCTGCAGCTGAAGACCGACCTGCTGGGCAGC
ATCTTTGGCCAGGAGAGAGCAGCCACCCTCCTGGAGCAGGTGACAAGTTCTGTGAGGGACAGAGACCTAC
TGCATAACAGCCTTCTTCAGCGAAGAGCAAATTCAGAGCCTGCTTGTTCAGCACAAGGACTTTGGGGT
GGCTTTTGTATCCCTAAACAGGAAGCTCCTAGACCTCCAGGCCAGGATCCAAGCAGAGAAAGGGCTTCCG
AGGGACCTTCTGGAAAGCAGGTCCAGCTCCTAAGGTTGCAGGGGCTGCAGGAAGAGGGGCTGGATCTGG
GGACACAGATCGAGGCTGTGAGGCTCTTGCCATGGAACTCTAAGCACCAGCAGAAAGTAGACCAGAT
CTCCTGTGACCAGCAAGCCCTGCAGAGGTCCTGGAGGATCTCGTGGACAGGTGCAGCAGAACGTACGG
GAACATTGTACCTCAGTACAGGCTGTGGAGCTGCAGCTATGGATCACCATGGCCACACAGACATTAG
AGTCACACCAAGGGGATGTGCGTCTGTGGGATGCTGAGTCCCAAGAGGCTGGACTCGAGACGCTGCTGTC
TGAAATCCAGAGAAAGAGGTCCAGGTGTCCCTGCTCCAAGCACTGGGCCAGCTTGTGATGAAGAAGTCT
TCCCCAGAAGGGGCAACCATGGTCCAGGAGGAGCTGAGGAAGCTGATGGAGTCTTGGCAGGCCCTGCGGC
TGCTAGAGGAGAACATGCTGAGTCTCATGAGAAACCAGCAGCTGCAGAGGACAGAGGTGGACACGGGGAA
GAAGCAGGTGTTCAACAACAATCCCAAAGGCCGGCTTTCTCATCAACCCTCAGGACCCCATCCCAGG
AGACAGCATGGGGCAAACCCACTGGAAGGACACGACCTCCCTGAAGATCATCCCCAGCTCCTGAGGGACT
TTGAACAGTGGCTGCAGGCAGAAAACCTCAAGCTACGTAGAATCATCACAATGAGAGTGGCCACAGCCAA
GGACTTGAGGACCAGAGAGGTGAAGCTGCAGGAGCTGGAGGCCGAATCCAGAAGGCCAGCACCTTTT
GAGAACCTGCTTCTGCTCAGGCCGGAAGGGACCCTCCAACGAGCTGGAAGATCTGCGCTACCGGTGGA
TGCTGTACAAGTCCAAGCTCAAGGACTCTGGCCACCTGCTGACCGAGAGTTCTCCGGGGGAGCTGACTGC
ATTCCAGAAGAGTCGGAGGCAGAAGCGGTGGAGTCCCTGCTCTCTCCTACAGAAAGCATGCCGTGTGGCA
CTGCCATTGCAGCTGTTGCTCCTGCTCTTTCTGCTGCTGTTCTGCTGCCGGCCGGCAGGAGGAGC
GCAGCTGCGCCCTGGCCAACAATTCGCCCGCTCCTTTGCGCTCATGTTCCGGTACAATGGCCCCCGCC
CACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227572 representing NM_172500
 Red=Cloning site Green=Tags(s)

MTTRRGPERPWRQGFERQSRIEWVWLHWSEYLLAQDEFYRWFQKMVVALEPPVELQLGLKEKQWQLSHAQ
 VLLHNVDNQAVLLDRLLLEEAGSLFSRIGDPSVDEDAQKRMKAEYDAVKARAQRRVDLLAQVAQDHEQYRE
 DVNEFQLWLKAVVEKVHSLGRNCKLATELRLSTLQDIAKDFPRGEEESLKRLEEQAVGVIQNTSPLGAEK
 ISGELEEMRGVLEKLRVWLWKEEEGRRLGLLQSRGDCEQQIQQLEAELGDFKKSRLRLAQEGLEPTVKTAT
 EDELVAQWRLFSGTRAALASEEPRVDRLOTQLKLVTFPDLQSLSDSVVATIQEYQSMKGKNTLHNATR
 AELWQRFQRPLNDLQLWKALAQRLLDITASLPDLASIHFLPQIEAALTESSRLKEQLAMLQKTDLLGS
 IFGQERAAATLLEQVTSSVRDRDLLHNSLLQRKSKLQSLLVQHKDFGVAFDPLNRKLLDLQARIQAEKGLP
 RDLPGKQVQLRLQGLQEEGLDLGTQIEAVRPLAHGNSKHQQKVDQISCDQALQRSLEDLVDRCCQNVN
 EHCTFSHRLSELQLWITMATQTLESHQGDVRLWDAESQEAGLETLLSEIPEKEVQVSLQLALGQLVMKKS
 SPEGATMVQEELRKLMEWQALRLEENMLSLMRNQQLRTEVDTGKKQVFNNIPKAGFLINPQDPIPR
 ROHGANPLEGHDLPEDHPQLLRDFEQWLQAENSKLRRIITMRVATAKDLRTREVKLQELEARIPEGQHLF
 ENLLRLRPARDPSNELEDLRYRWMLYKSKLKDSGHLLESSPGELTAFQKSRQRKRWSPCSLLQKACRVA
 LPLQLLLLLLFLLLFLLPAGEEERSCALANNFARFALMLRYNGPPPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9003_d06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

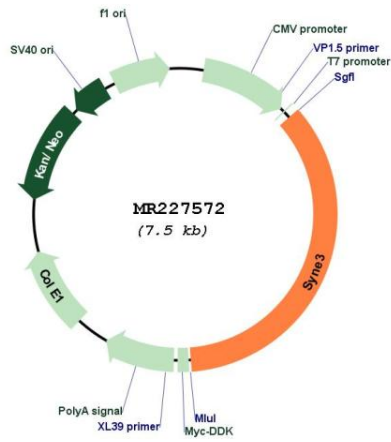


* The last codon before the Stop codon of the ORF

ACCN: NM_172500

ORF Size:	2664 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:	<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:	5083 bp
RefSeq ORF:	2667 bp
Locus ID:	212073
UniProt ID:	Q4FZC9
Cytogenetics:	12 E
MW:	102.6 kDa
Gene Summary:	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]

Product images:



Circular map for MR227572