

Product datasheet for RN202866

Syne4 (NM_001009283) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Syne4 (NM_001009283) Rat Untagged Clone
 Tag: Tag Free
 Symbol: Syne4
 Synonyms: KASH4; RGD1304580
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >RN202866 representing NM_001009283
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAGTTTCCACTTCTTGCCATGGATTCCCTCCAGAGCCTGTGAATCACCCCTGGGAGTCTCA
 GGGGCTGGACGTTGCCGACCTACCATCTGCCCTGCACCTGAGGAGGAGCCGAGCAGGCCAGAGCAGT
 CCAGGCCCTCCTTGACGCGCCTGAGCATTTCATGGATGAACCGAAGAGCACTGAGTCTGCCACCAGCCCC
 TCAAACTACCCCTGGCCTCTTCCCATGAGCATCAAGATGGGGCAAGCCCTGTGAGGCCCTGCAGGCAG
 AGCTCCAAGGGGAGCCGAACGTGTGGATGCATTGCTTGTATTTGGTGAAGGCGCTGGCAGAGAGGAGTGA
 GCCCAGAGCCTGGACATCCCTGGAGCAGGTCTGAGGGCCCTTGAACCCATCGAGACACCATCTTCCAA
 CGGCTCTGGCAGCTGCAGGCCAGTTGATCAGCTATAGCCTGGTGGTCTGAGAAGGCCAACCTACTGGACC
 AGGACTTGAAGTTGAGGGAGACTCAGACGGGCCAGCAGCTGGTGGAGTCTGGGGCCCTGGGCACCCAG
 TATCTTCCCCTCCTGCAGAGTTGGAGTGGGACCCAGCAGGGGATGTTGGGGTCTTGGACCCTCAGGG
 CAAAAGATATCTCGATACCAGGAGCTCCCTGTGAGCTGTGTGGCTACAGGGGATCCAGAGCAGTGGAC
 AGGGCTTTGAGGACCTGCTCTCACTGGGGCTTGGCCACCGAAACATTTGGCGGCTCACCATCGAAGGCG
 TCTCCAGAAGCCTCAGGACAAGAAGAGGCAAGGACCTCCTAGTCTGCCCGATGCGATGCTGGAAGTGGAT
 CGTGGGGTCCCAGCTCCTGCATCCAGGGCGCCCTGACCTTCTCCTTCTCCTTCTCTTCTCCTTCTGG
 TGGGTGCCACATTGTTGCTGCCCTGTGCGGGGTCCCCTGCTGTTCTCATACCCGGCTGGCCAGGACGCC
 CTACCTGGTGCTCAGCTATGTCAATGGGCTCCCTCCAATCTGA

ACGGTACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_001009283



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Insert Size:	1023 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_001009283.1 , NP_001009283.1
RefSeq Size:	1169 bp
RefSeq ORF:	1023 bp
Locus ID:	292781
UniProt ID:	Q5M844
Cytogenetics:	1q21
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. Behaves as a kinesin cargo, providing a functional binding site for kinesin-1 at the nuclear envelope. Hence may contribute to the establishment of secretory epithelial morphology, by promoting kinesin-dependent apical migration of the centrosome and Golgi apparatus and basal localization of the nucleus (By similarity).[UniProtKB/Swiss-Prot Function]