

## Product datasheet for **RR202866**

### Syne4 (NM\_001009283) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Syne4 (NM\_001009283) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Syne4  
**Synonyms:** KASH4; RGD1304580  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR202866 representing NM\_001009283  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCAGTTTCCACTTCTGGCCATGGATTCCCTCCAGAGCCTGTGAATCACCCCTGGGAGTCTTA  
 GGGGCTGGACGTTGCCGACCTACCATCTGCCCTGCACCTGAGGAGGAGCCGAGCAGGCCAGAGCAGT  
 CCAGGCCCTCCTTGACGCGCCTGAGCATTTCATGGATGAACCGAAGAGCACTGAGTCTGCCACCAGCCCC  
 TCAAACTACCCCTGGCCTCTTCCCATGAGCATCAAGATGGGGCAAGCCCTGTGAGGCCCTGCAGGCAG  
 AGCTCCAAGGGGAGCCGAACGTGTGGATGCATTGCTTGTATTTGGTGAAGGCGCTGGCAGAGAGGAGTGA  
 GCCCAGAGCCTGGACATCCCTGGAGCAGGTCTGAGGGCCCTTGAACCCATCGAGACACCATCTTCCAA  
 CGGCTCTGGCAGCTGCAGGCCAGTTGATCAGCTATAGCCTGGTGGTGGAGGAGTCTGGGGCCCTGGCACCAG  
 AGGACTTGAAGTTGAGGGAGACTCAGACGGGCCAGCAGCTGGTGGAGTCTGGGGCCCTGGCACCAG  
 TATCTTCCCCTCCTGCAGAGTTGGAGTGGGACCCAGCAGGGGATGTTGGGGTCTTGGACCCTCAGGG  
 CAAAAGATATCTCGATACCAGGAGCTCCCTGTGAGCTGTGGCTACAGGGGATCCAGAGCAGTGGAC  
 AGGGCTTTGAGGACCTGCTCTCACTGGGGCTTGGCCACCGAAACATTTGGCGGCTCACCATCGAAGGCG  
 TCTCCAGAAGCCTCAGGACAAGAAGAGGCAAGGACCTCCTAGTCTGCCGATGCGATGCTGGAAGTGGAT  
 CGTGGGGTCCCAGCTCCTGCATCCAGGGCGCCCTGACCTTCTCCTTCTCCTTCTCTTCTCCTCTCTGG  
 TGGGTGCCACATTGTTGCTGCCCTTGTGCGGGTCCCCTGCTGTTCTCATACCCGGCTGGCCAGGACGCC  
 CTACCTGGTGCTCAGCTATGTCAATGGGCTCCCTCCAATC

**ACGGT**ACGGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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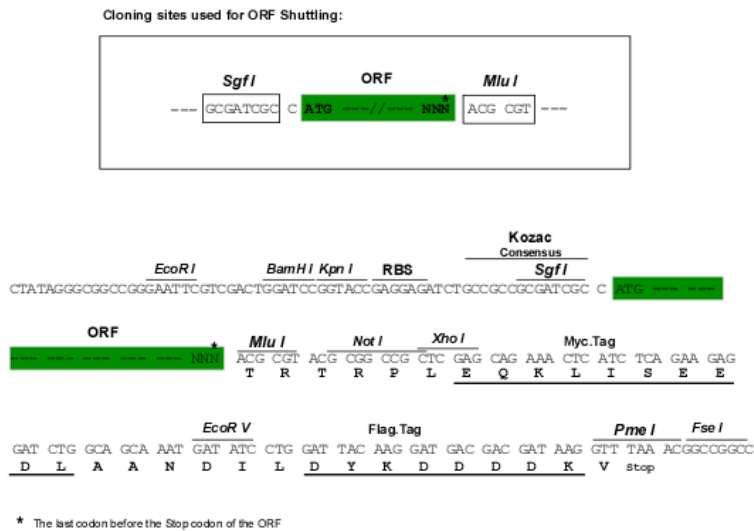
Protein Sequence: >RR202866 representing NM\_001009283  
 Red=Cloning site Green=Tags(s)

MAQFPLLGHGFPPEPVNHPLGGPRGLDVAGPTICPAPEEEPSRPEVQASLDAPEHFMDEPKSTESATSP  
 SKLPLASSHEHQDGGKPCALQELQGAERVDALLVFGEGLAERSEPRAWTSLEQVLRALGTHRDTIFQ  
 RLWQLQAQLISYSLVLEKANLLDQDLEVEGSDGPAAGGVWGPWAPSIFFTPAELEWDPAGDVGGGLGSPG  
 QKISRIPGAPCELCGYRGSQSSQGFDLLSLGLGHRKHLAAHHRRLQKPDKKRQGGPPSLPDAMLEVD  
 RGVPPASRRPLTFLLLLLLFLLLVGATLLPLSGVPCSSHRLARTPYLVLSYVNGLPPI

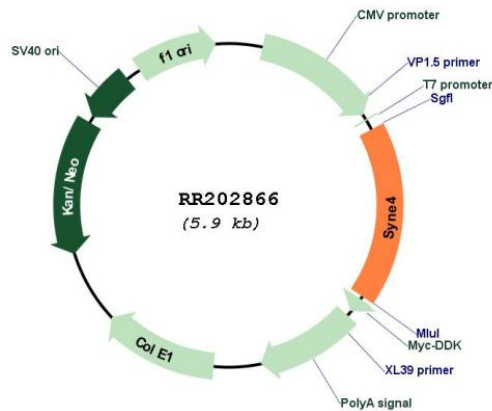
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001009283

ORF Size: 1020 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001009283.1</a> , <a href="#">NP_001009283.1</a>
<b>RefSeq Size:</b>	1169 bp
<b>RefSeq ORF:</b>	1023 bp
<b>Locus ID:</b>	292781
<b>UniProt ID:</b>	<a href="#">Q5M844</a>
<b>Cytogenetics:</b>	1q21
<b>MW:</b>	36.5 kDa
<b>Gene Summary:</b>	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]