

Product datasheet for **MR215268**

Syna (NM_001013751) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syna (NM_001013751) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Syna
Synonyms:	Gm52; Gm453; syncy; syncytin-A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>MR215268 representing NM_001013751
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTTCGTCCTTGGGTTTTCTGTCTCCTCTGTTCCCTTGTTCCTCTGCCTACTCGGACAGCTGGATGC
 CCTGGTAAACCTCACTCAACACCTCCTCCAGGAGGCTAACTCTTCCTTCTCTTCCAACCTGCTGGGTCTG
 CTTATCCATCCAAACCCAGCGCTCTCTAGCCATGCCAGCCCCACTAAGGACTTGGACAGAGACACCCATG
 AAATTGGAATCATGTACTCAGCCCGGACCCTCTCCGGCCATACCCTATCACCGACCTTGAGAGCGCC
 TCCAGAATTTCAACCATGACTCCCCACTCCTCTTTGTCAACCCTGACCAGCGGGCCATTGCTTTCT
 TCAGATCACCAGCGTGACAGGCATACTTCCATACTTTCTCGGATCACCTCGGTGAGATACCCCGATGAC
 CACGTCTATGAATCTGCCAGCGCCCATATGGGGCTCACTCTCCACCCAGACGATCCTCACCTCCCAGG
 CCCCTCTCTGCATATCCCGCTTCTCAAGAATTCAAACCATGCCACCTTCGTGGGCAAATCCCTGCCTC
 TCTTTGAATCACACCTTTCAGCTCTCCCCCTCTGCCAACCAATCCATAGATCTGTCTCCAGCTAT
 GCATTCGCCCCATTAATGGCCATGCCAGGTCTAAATGGAGAAACCCCTTACGCTTTTCAGGACCCCTT
 CCCTGAACCTCAGGGATGCCTCACTACTCCTGCCGATAGATGACATCCACTGCCACACCTACCCACCCAC
 CCCCTGGAGGTCTGTCTTCTTCCCAGCTAGCACCTGCTATAATCTCACCTATTTCGAGCCGGACAAT
 TCGAGCCACCCTATTACCTGTCTGTGGACACCACATACTTCAAGATTAACTCCAGGGACACAAAGACC
 CCTATCCACTCTTTCAGTACCAGCCCTCATGGGGCAGCCCTCTCTGGACAATATTCAATCTGGGAATA
 TGAACCCACTGTTAAGAAAAACGGCGGTATCACTCCAAATATCTTCTCCACCTTGTCTCCTTAACATAC
 TCCTTCTGCCTCAACTCCTCTGGTGTCTTCTCCTCTGTGGAACTCACTTATGTCTGTCTCCCGGCCA
 ATTGGTCCGGCTGTACCTTGTCTTCCAATACCCGGATATTGAACCTCTTCCCAACAACCAACCAT
 ATCTGTCCCGCTTTTGTCTACAGTTCCCTCCTCTGTCCCGCTTCTCGCCGGAAGCGAGCCCTTCTCTC
 CTCTCTCTCTCGCGGGCTGGGCATTGCTTCTGCCCTGGGGTTAGGCATCGCGGTATCACACCTCAA
 CTGTGTATTTCCAACAGCTTTCCAAGGCTCTCTCGGACAGCCTAGATGAAATAGCCACCTCCATCATCAG
 CCTCCAAGACCAATAGACTCGCTGGCGGGTGTCTTCTCCAAAACCGCAGAGCTCTGGACCTATTGTG
 GCTGAGAGGGGGGACCTGCCTCTTCTCCAGGAAGAGTGTCTTCTACATAAACCAGTCCGGGGTAG
 TCCGGCACGCGCAAGGAACTTCGAGAAAGGGCTCGGAACCTCGGCACAAGCTCGAGTTCTTGGATCCA
 GTGGCTGGGGCTAGGACCTGGTGCCTCTTGGTTGACTTCCCTCATGGCTCCATTCTCTTTATCCTG
 GTACTGCTGGTTTTCAGGCCTTGTCTTCTAACTGCCTGACTCATTCTGTATCGCGGCGAATGAGTTCTT
 TCATTCACACCACCACGAAGGACAGTGGACAAGATCCTTCTGTCTCGAGAGTCCAGTACAAGAGACT
 TCCCAAGAGCCCCCGGAGGAGGATGCCGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR215268 representing NM_001013751
 Red=Cloning site Green=Tags(s)

MVRPWVCLLLFPCSSAYSDSWMPLVNLQHLLEANSFSSNCWVCLSIQTQRLAMPAPLRTWTETPM
 KLRIMYSARTLSGPYPITDLERRLQNFQPLTPHSSFVNPQRAIAFLQITSVTGILPILSRITSVRYDD
 HVEESAQRPIWGLSTQITLTSQAPLCISRFFKNSNHATFVGKLPAFLCNHTFQLSPSANHQSIDLSSSY
 AFAPLMAMPGSKWRNPLRFSGPPSLNSGMPHYSCPIDDIHCHTYPTTPWRSCPSFPASTCYNLTLFEPDN
 SSHPITLSVDTTYFKIKLQGHKDPYPLFYQPLMGAALSGQYSIWEYEPTVKKNGGITPNIFSHLVSLTY
 SFCNLSSGVFFLCGNSTYVCLPANWSGVCTLVFQYPIELLNNQTIISVPLFATVPSSVPASRRKRALPL
 LPLLALGLIASALGLGIAGITTTSTVYFQQLSKALSDSLDEIATSIISLQDQIDSLAGVVLQNRALDLIV
 AERGGTCLFLQECCFYINQSGVVRHAARKLRERASELGTSSSWIQWLGLGPWLPSWLTSLMAPILFIL
 VLLVFRPCLLNCLTHSVSRMRSSFIHTTTEGHVDKILLRESQYKRLPQEPPEEDAV

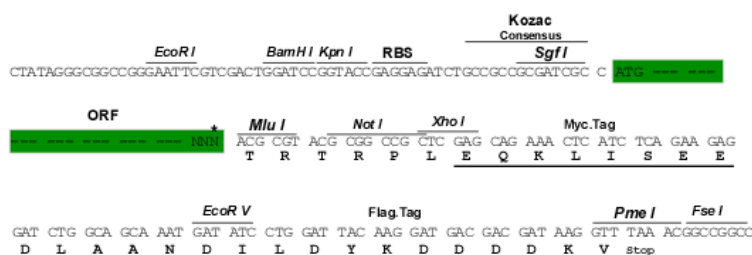
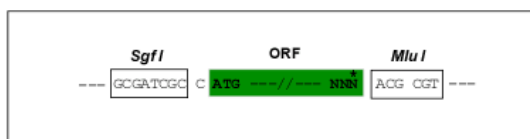
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9081_c07.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001013751

ORF Size: 1851 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

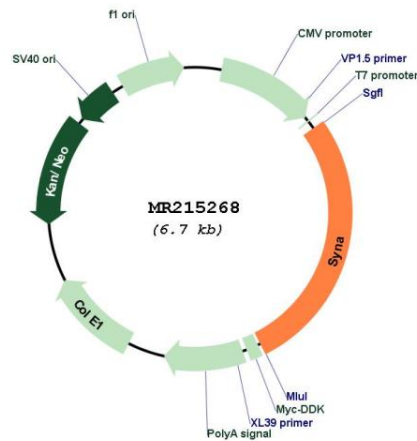
RefSeq: NM 001013751.2, NP 001013773.1

RefSeq Size: 2918 bp

RefSeq ORF: 1854 bp
 Locus ID: 214292
 UniProt ID: [Q5G5D5](#)
 Cytogenetics: 5 G2
 MW: 68.7 kDa

Gene Summary: Many different endogenous retrovirus families are expressed in normal placental tissue at high levels, suggesting that endogenous retroviruses are functionally important in reproduction. This gene is part of a mouse endogenous retrovirus provirus on chromosome 5 that has inactivating mutations in the gag and pol genes. This gene is the envelope glycoprotein gene which appears to have been selectively preserved. The gene's protein product plays a major role in placental development and trophoblast fusion. The protein has the characteristics of a typical retroviral envelope protein, including a cleavage site that separates the surface (SU) and transmembrane (TM) proteins which form a heterodimer. [provided by RefSeq, Apr 2015]

Product images:



Circular map for MR215268