

Product datasheet for **MG215268**

Syna (NM_001013751) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Syna (NM_001013751) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Syna
Synonyms:	Gm52; Gm453; syncy; syncytin-A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG215268 representing NM_001013751
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTTCGTCCTTGGGTTTTCTGTCTCCTCCTGTTCCCTTGTTCCTCTGCCTACTCGGACAGCTGGATGC
 CCTGGTAAACCTCACTCAACACCTCCTCCAGGAGGCTAACTCTTCCTTCTTCCAACTGCTGGGTCTG
 CTTATCCATCCAAACCCAGCGCTCTCTAGCCATGCCAGCCCCACTAAGGACTTGACAGAGACACCCATG
 AAATTGGAATCATGTACTCAGCCCGGACCCTCTCCGGCCATACCCTATCACCGACCTTGAGAGCGCC
 TCCAGAATTTCAACATTGACTCCCCACTCCTTTTTGTCAACCCTGACCAGCGGGCCATTGCTTTCT
 TCAGATCACCAGCGTGACAGGCATACTCCCATCTTTCTCGGATCACCTCGGTGAGATACCCCGATGAC
 CACGTCTATGAATCTGCCAGCGCCCATATGGGGCTCACTCTCCACCCAGACGATCCTCACCTCCCAGG
 CCCCTCTCTGCATATCCGCTTCTTCAAGAATTCAAACCATGCCACCTTCGTGGGCAAATCCCTGCCTC
 TCTTTGAATCACACCTTTCAGCTCTCCCCCTCTGCCAACCAATCCATAGATCTGTCTCCAGCTAT
 GCATTCGCCCCATTAATGGCCATGCCAGGTCTAAATGGAGAAACCCCTTACGCTTTTCAGGACCCCTT
 CCCTGAATCAGGGATGCCTCACTACTCCTGCCGATAGATGACATCCACTGCCACACCTACCCACCCAC
 CCCCTGGAGGTCTGTCTTCTTCCCAGCTAGCACCTGCTATAATCTCACCTATTTCGAGCCGGACAAT
 TCGAGCCACCCTATTACCTGTCTGTGGACACCACATACTTCAAGATTAACTCCAGGGACACAAAGACC
 CCTATCCACTCTTTCAGTACCAGCCCTCATGGGGCAGCCCTCTCTGGACAATATTCAATCTGGGAATA
 TGAACCCACTGTTAAGAAAAACGGCGGTATCACTCCAAATATCTTCTCCACCTTGCTCCTTAACATAC
 TCCTTCTGCCTCAACTCCTCTGGTGTCTTCTCCTCTGTGGAACTCACTTATGTCTGTCTCCCGGCCA
 ATTGGTCCGCGTCTGTACCTTGTCTTCAATACCCGGATATTGAATCCTTCCCAACAACCAACCAT
 ATCTGTCCCGCTTTTGTCTACAGTTCCCTCCTCTGTCCCGCTTCTCGCCGGAAGCGAGCCCTTCTCTC
 CTCTCTCTCTCGCGGGCTGGGCATTGCTTCTGCCCTGGGGTTAGGCATCGCGGTATCACCACTCAA
 CTGTGTATTTCAACAGCTTTCAAGGCTCTCTCGGACAGCCTAGATGAAATAGCCACCTCCATCATCAG
 CCTCCAAGACCAATAGACTCGCTGGCGGGTGTCTTCTCCAAACCGCAGAGCTCTGGACCTATTGTG
 GCTGAGAGGGGGGACCTGCCTCTTCTCCAGGAAGAGTGTCTTCTACATAAACCAGTCCGGGGTAG
 TCCGGCACGCGCAAGGAACTTCGAGAAAGGGCTCGGAACCGGCACAAGCTCGAGTTCTTGATCCA
 GTGGCTGGGGCTAGGACCCTGGTGCCTCTTGGTTGACTTCCCTCATGGCTCCATTCTCTTTATCCTG
 GTACTGCTGGTTTTCAGGCCTTGTCTTCTAACTGCCTGACTCATTCTGTATCGCGGCGAATGAGTTCTT
 TCATTCACACCACCACGAAGGACAGTGGACAAGATCCTTCTGTCTCGAGAGTCCAGTACAAGAGACT
 TCCCAAGAGCCCCCGGAGGAGGATGCCGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG215268 representing NM_001013751
 Red=Cloning site Green=Tags(s)

MVRPWVCLLLFPCSSAYSDSWMPLVNLQHLQEANSSFSNCWVCLSIQTRSLAMPAPLRTWTETPM
 KLRIMYSARTLSGPYPITDLERRLQNFQPLTPHSSFVNPQRAIAFLQITSVTGILPILSRITSVRYPDD
 HVEYSAQRPIWGSLSQTILTSQAPLCISRFFKNSNHATFVGKLPASLCNHTFQLSPSANHQSIDLSSSY
 AFAPLMAMPGSKWRNPLRFGPPSLNSGMPHYSCPIDDIHCHTYPTTPWRSCPSFPASTCYNLTLFEPDN
 SSHPITLSVDTTYFKIKLQGHKDPYPLFYQYQPLMGAALSGQYSIWEYEPTVKKNGGITPNIFSHLVSLTY
 SFCLNSSGVFFLCGNSTYVCLPANWSGVCTLVFYQYPIELLNPNQTIISVPLFATVPSSVPASRRKRALPL
 LPLLALGLIASALGLGIAGITTSTVYFQQLSKALSDSLDEIATSIISLQDQIDSLAGVVLQNRRLDLIV
 AERGGTCLFLQECCFYINQSGVVRHAARKLRERASELGTSSSWIQWLGLGPWLPSWLTSLMAPILFIL
 VLLVFRPCLLNCLTHSVSRMSSFIHTTEGHVDKILLRESQYKRLPQEPPEEDAV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



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: 1854 bp

RefSeq ORF: 1854 bp

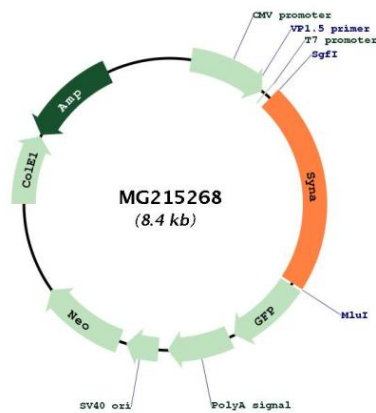
Locus ID: 214292

UniProt ID: [Q5G5D5](#)

Cytogenetics: 5 G2

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 MG215268