

## Product datasheet for **MG215334**

### Synb (NM\_173420) Mouse Tagged ORF Clone

#### Product data:

<b>Product Type:</b>	Expression Plasmids
<b>Tag:</b>	TurboGFP
<b>Symbol:</b>	Synb
<b>Synonyms:</b>	D930020E02Rik; syncytin-B
<b>Mammalian Cell Selection:</b>	Neomycin
<b>Vector:</b>	pCMV6-AC-GFP (PS100010)
<b>E. coli Selection:</b>	Ampicillin (100 ug/mL)



**ORF Nucleotide Sequence:** >MG215334 representing NM\_173420  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACAGGCTTTGGGTCCTCTGTTTCGTCCTTTCCCTCCTCTTATCCTATCCGAAAGCTGGATGC  
 CCCTTGTAACCTCACTCACCACATCCTACGTGATACCAACTCTTCCCTGTTTTCCAACCTGTTGGGCTG  
 CTTGTCTACCCAAACCCAGCGGTCCTTAGCAGTCCCAGCCCCTCTGTCCATTTGGACAGATACCCCATG  
 AAGTTCATCTTACCTACTCAGTCAGGCCCTTCTCTGGCTCCTTTCCATTAGCGACATTGAAAGACGCC  
 TCCGCTCTTCCGCCACTGACTGCCTCCTATTCTTTCCACAATCCTGACAGAAGGGCGATTGCTTTTCT  
 TCAACTCGTCAGCTCAACAGGCATATTTCCGGATCATACCCGGATAACCTCTGTGATATATCCCCATAAG  
 GACCGTTTCTCGAATCTGCCAACGCCCTCTCTGGGACCCTCTTTACTGAGACCGTGCTCAGGTCGC  
 AGGCCCACTCTGCATATCTCGCTTTTCAAGGTCTCAGCATATGCCACTTTTGTAGGCAACCTCTCTGC  
 CTCTCTGCAACTACCCATGCATATTTACCTTCTACCAGTCATGAAAACCTAGATCTTTCCACCACC  
 CATACGTTCAAACAGGCAATGAAAAGACCGGATGCCAAATGGAAAAACCCGCTCCGTTTTTCCGGGCCCC  
 CCTCCCTCATCTTCTCGAAGCCGGCTTACTATCCCTGCCAACAGACATCAAACACTGCCATACCTCTCC  
 GGCCACTCCCTGGATGCACTGTCTCAGGCTCCCTCGGCACCTGTATAACCTCACTTTATTTGAACCA  
 GACAACCTCAACCCACCTGTTACCATGTGAGTGAACCTACCCACTCAAGGTCAAACCTCCAGGGGCACA  
 GAGACCCCTATCCGCTCTCCATTACCAGCCCCTCACGGGAGCTGCCCTGTCTGGACAATATTCAGTCTG  
 GGAGAACGAGATCACTGTCCAAGAAAACCTGGGACATCACCTCCAACATTTTCTCACATCTTCTCAGTTC  
 TCGTACGCCTTCTGCCTCAACTCTTCAAGGCTTTTCTCTCTGCGGAACATCGACTTACATCTGCCTCC  
 CAGCCAATTGGTCCGGTCTGTACCCTGGTCTTCCAATACCCGGATTTGAACCTTCCCCAATAACCA  
 AACGGTGCCTGTTCCCTTTTTGCTTCAGTCTTTCTCCTCAGACTCAGTTCTTCCGCCAAAGAGGTCGCC  
 CACCTCTTCCCTTCTTGCAGGCCTGGGTATCTTCTGCTCCCTGGTACGGGGATAGCTGGCTTGCCCA  
 CCTCGACTCTATTTCCAACAGCTTTCTAAGGTTCTTTCCGAAACCTTGAAGAAATAGCTGCCTCTAT  
 CACTACCCTCCAGAACCAATAGACTCGCTCGCAGGTGTTGTTCTACAAAACCCCGAGCTCTGGACCTC  
 ATCACTGCTGAGAAAGGGGGCACCTGTCTCTTCCAGGAAGAGTGTCTCTTACGTAACCCAGTCTG  
 GAATAGTCCGGGACCGGCAAGGAACTCCAAGAACGAGCATCTGAACTCGGCCAGCATTCTGACTCTTG  
 GGGACAGTGGCCTGACCTTGGACGTTGGTTCCTGGCTGACTCCCTTTCTGGACCTCTTCTTCTCCTC  
 TTCTTCTACTGACATTTGGGCTTGTCTTCTGAACTGCCTAACCCGTTTTGTGTCAGAGACTTGGCT  
 CCTTTGTTCAAGACTGCCAAAAGGCATGTGGACAGCATCTCCAAAATTTCCAATATAAAAACTGCC  
 CCAAGACTCCCCAGATGAGGACACCATTCTACA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG215334 representing NM\_173420  
 Red=Cloning site Green=Tags(s)

MTGFVWLCFVLFPSLSYPESWMLVNLTHHILRDTNSSLFNCWVCLSTQTRSLAVPAPLSIWDTPM  
 KLHLTYSVRPFSGSFSISDIERRLRFRPLTASYSFHNPDRRAIAFLQLVSSTGIFRIITRITSVIYPHK  
 DRFFESAQRPLWGPLFTETVLRSAQPLCISRFFKVSAYATFVGNLSASLCNYTMHISPSTSHENLDLSTT  
 HTFKQAMKRPDAKWKNPLRFSGPPSLIFSKPAYPCPTDIKHCHTSPATPMMHCPQAPFGTCYNLTLP  
 DNSTHPVTMSVNPTHFKVKLQGHRDPYPLSHYQPLTGAALSGQYSVWENEITVQENWDITSNIFSHLLSF  
 SYAFCLNSSGVFFLCGTSTYICLPANWSGVCTLVFQYPIELLPNNQTPVPLFASVLSSDSVLRPKRSP  
 HLPFPLAGLGISSALGTGIAGLATSTLYFQQLSKVLSETLEEIAASITTLQNQIDSLAGVVLQNRALDL  
 ITAEKGGTCLFLQEECCFYVNSGIVRDAARKLQERASELGHQSDSWGQWPDLRWLWPLTPFLGPLLFL  
 FLLTFGSCLLNCLTRFVSQRLGSFVQDTAKRHVDSILQNFQYKKLPQDSPDEDIPT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_173420

**ORF Size:** 1854 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.

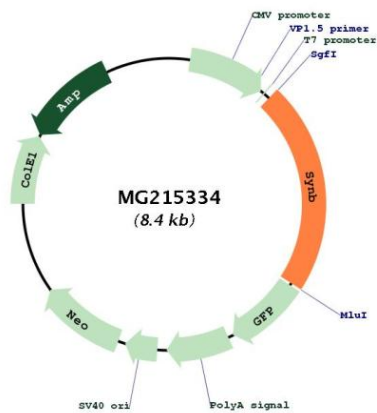
**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_173420.3](#), [NP\\_775596.1](#)

RefSeq Size:	3001 bp
RefSeq ORF:	1857 bp
Locus ID:	239167
UniProt ID:	<a href="#">Q8BI41</a>
Cytogenetics:	14 D2

**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 an endogenous retrovirus provirus 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 MG215334