

## Product datasheet for **MG212450**

### 1700017B05Rik (NM\_028820) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	1700017B05Rik (NM_028820) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	1700017B05Rik
Synonyms:	AA682102; D9Ertd278e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG212450 representing NM_028820 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGAGAAGCGGCCCTAGGGCCTCTGGGGCCTATGATGTATGGCAAGCTGCCTCGCCTGGAGCCAG  
ACCCAGGGCCAGGACACAGCCTGCCCTTTCTGCTAGCAGCCAGGACTCCTGCAATTACAAAGGTGCATA  
TTTCTCCTGCCCATAGGGGTACTTCGAAGGCAGGATCTGAGCGGTTGGCATCCTGGACCCCATATCCA  
TCTTTGTACCCACTGGTGTGGCAGGATCCCACTCCGGGTGACAACCTACTGACAAATGCCTGCTCT  
ACCGTCCCCGACAGAAGGCTCTGAAAAGATACAAGACTCAAGTGAGCTGCTGCCCTTCGGTCCCCAGGC  
TCATGCGTACCCAGGCCCGCCCTGGCCGCGCCAAGCCTGTCTACCGCAACCCTTTGTGTTACGGACTC  
TCCACTTGCCCTCGGAGATGGGGGAACAAAGAGATCATTGGATGGTACTGGACCCCTGGTGACAGGGCCCC  
TGCTGCCTTCTGCTGACCCACCTGTCTCTAGCTACAGCTCCTGGCAAGGGCCAGCCCCCTGGATGGGAC  
GTTCTTGGCAGGACTACCATCTGGGGGACCTGGCAAGGACTCTTCCCTGCCTTTTTCCCCGTGCCAGGCA  
TTCTTGGAGAAGTATCGAACTATCCAAAGCACAGGTTTCTGGCTTCCAAGTACACCAGTCTTATCCTG  
GGGATGCAAAGCAAGCAATGTCTGAGGGGCCCTCCAGTCTTGGACTCACTTGCACAGCCCTAGGGCC  
ACCTTGCCAGGATGCAGTGGCAGCCACTATCCACTGCCCCACCGCCACAGGCCCTGCCTTGCCCTCCA  
TCTTGTATCCAGAAAAGCAGGGAAGCTATGGCTCGTTGCTCCCACTGCCACCTTAGGAGCCACAAAG  
GGGCTGCGTACCAAGCTGGGGGGCTGGGCAGCCCTTACCTGAGGCAACAGGCACCCAGGCTCCGTACAT  
GCCCCCTCTTGGGATAGACAGTTATTCCTACTCCTCTGCACCCCTCCAGCACCATCACCAGGGCTCAAA  
CTGGAGCCCCCTTGTCTCAAGGTGCCACTGGACTTTGTTCCCAAATCTGGGTTTTCTTATGCCA  
GGGATGACCTCTCTCTATGGGGCATCCCCGGGGCTTGGGGAAACACCGCCTTCCCAATCCAGAACAG  
TGTGCAGCCTGTGCCACAGCCCGGTGCCTTCCAGCGAGCATGCCAGCCTTTGCCAGCCAGCCAACCTGC  
TCTGAGCCTGTGAGACCTGCAGAGAAGCCAACCTCAGAAGCTCAAGAGAAGATGTGGCTGCCAGCTGCA  
GGAAAGAGCAACTCCAGCCAGGCCAAACGAGCGTCTGGAGTGCCTATTGTTATCCGGGACAGTCCAGT  
TCCCCGACCTCACCAGCACTGCACCCCTGTGCCAAGGAGCGGCAGTCTGTCCCACAGAAGGATGCCAGG



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CCTCCCAGCTCCCCACCAATGCCCGTGATTGACAACGTTTTAGTCTGGCCCTTACCGTGACTACCTGG  
 ATGTGCAGACACCAGAGCCAGGGCTGAGCGGGACTCGGCTCCAGCCACCAGTAAGAGCCAAGACAAAGA  
 TTGCAAGGGGAACCTGCCTGCTCAGGATGGAGCCTCCAGGTCTCACTGCTCTCTTCGTGAGGAGGTGGCT  
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 GATGGTCACAGAAAATCCCTGAAGTAACCTGACAGAGCCACACCAAGGACCAACTCCATAGCTCTGTGGCC  
 TTCATGTTCCGAAAATCAAGATACTCCGTAACCTGCGCCGTACCTGCAGCTATTGTCTCATCTCCCACTA  
 CCCCGGCTCCTGTCCCTGCGCCTGCCCTGCACAGCCTGTACCAACCCCGCTGTGCCAGTGGGACT  
 GCAGATCCTCACTCAGCCTTTGCCAGTGGCATGCTTCAACCTGGCCCTGCCTAGCCACCAGCCATAGTG  
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 CTCATCGTCTGCTCAAGTTCCTACTGCAGCCCCAGTGGACTCCCCGGAACAGCACTTACAGGGCTGCA  
 CACATCCCTCTGTGATGCCATCTCAGGCTCTGTGGCCATTCTCCACCAGAGAACTGCGGGAGTGGCTT  
 GAGACAACTGGGCCGTGGGGCCAGGCTGCGTGGCAGGACTGCCAGGTGTTACAGGGCTACTAGGCAAAC  
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 CATCTTTGTGCCATCCATCTGTTGAAGGAGCGTCTTTCCAAAGCTGCCACCGCCTCTGTGGACCAC  
 GTTTGCAGGACCACCGAGTGGAACTACGGCCACCCTGTGCGGAGGAGCGTGCCTGCGTGAACGTG  
 CCCTGCACGGCTGCACCTCGCGCATGCTGAAGTGTGGCACTGCCTGACATCTATCTCTGA  
 CCTGCTGGGCTACAGTGGCATGACTGTGTCCGCCAGCTGGGTGGCTTTGACACTGAGGCCAGA  
 TTATCCCATCAGAACCCACGGTACCAGAGATGAGCCAGAAAGCCAAGCCTTGGCTGAAAAGTTGCCAG  
 CCCCCAAGGTCAAGAAGCCAGGGAGGAAGCCACCGACGCTGGCCCTGAGAAAGCAGAGGCGCCACTGG  
 GGAAGGTACGTAATCCCTCACCTAGCTCTGGTCCAGCACCAGCCACCAGTCCCACCTGAGGGCC  
 CGTTCGCAACCTGTTAGAAAATGCCTGGCTCAATGGTGTGGCACTGCCTACTTGGGGTCAACAAGCCT  
 CCGGAGCAGATCGATCTTCGCTCACCCACAGCTTTGGGCAGCCAGACCCATCATCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG212450 representing NM\_028820  
 Red=Cloning site Green=Tags(s)

MAEKRPLGPLGPMYMKLPRLEPDGPGHSLPLSASSQDSCNYKAYFSCPIGGTSKAGSERLASWTPYP  
 SLYPTGVAGSPLRGDNLNTNCLLYRPTEGSEKIQDSSELLPFGPQAHAYPGPPLAAPKPVYRNPLCYGL  
 STCLGDGGTKRSLDGDWTLVTGPLLPSADPPCPLATAPGKGQPLDGTFLRGLPSGGPGKDSLPFSPCQA  
 FLEKYRTIQSTGFLASKYTSYPYGDQAMSEGSSPWTQLAQPLGPPCQDAVAHAYPLPPPQALPCPP  
 SCHPEKQGSYGSLLPLPPLGAHKGAAYQAGGLGSPYLRQQAPQAPYMPPLGIDSYSYSSAPLPAPSPGLK  
 LEPLAPRCPLDFVPQTLGFPYARDDL SLYGASPLGGTPPSHSQNSVQVPVQPGAFQRACQPLPASQPC  
 SEPVRPAEKPTPEAQEKMWLPSCRKEQLQPRPNERPGVPIVIRDSVPVPTSPALHPCAKERQSVQKQDAR  
 PPSPPMPVIDNVFSLAPYRDYLDVQTPPEPRAERDSAPATSKSQDKDCKGNLPAQDGASRSHCSLREEVA  
 LDLSVKKTMAEGVPVKVPSPEVHEKPAEAVDGGIENVTSGLPGLKMMVTEIPEVTAETPRTNFHSSVA  
 FMRKFKILRTAPVPAIIVSSPTTAPVPAPAPAQVPNPPSVVGLQILTLQPLPVACFNALPSPPAIV  
 ASPAPASAPPPAPAPAPASGPAPSSAQVPTAAPVDSPEQHFHTGLHTSLCDAISGVAHSPPEKLEWL  
 ETTGPWQAQWQDCQGVQGLLGLKLLSQLQKQFVCTQRCPPHVVRAGAI FVPIHLVKERLFPKLPASVDH  
 VLQDHRVELRPTTLSEERALRERALHGCTSRMLKLLALRQLPDIYDGLLQWHDCVRRQLGGFDTEART  
 LSPSEPTVTRDEPESQALAGKLPAPKVKKPGRPPTPGPEKAEAAATGEGSRNPPSPSSGASTSPPGPTLRA  
 RFRNLLNAWLNVALPTWGHKASGADRSSHPQLLGSQTHHL

TRTRPLE – GFP Tag – V

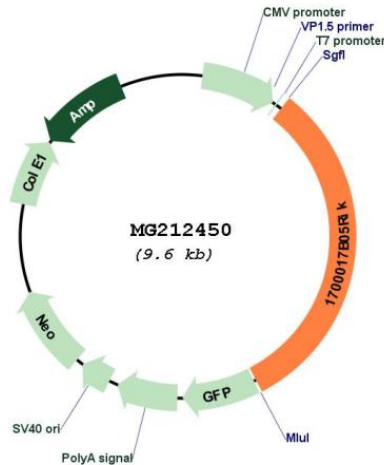
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_028820

ORF Size: 3069 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](#)

<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>	<u><a href="#">NM_028820.2</a></u> , <u><a href="#">NP_083096.1</a></u>
<b>RefSeq Size:</b>	4934 bp
<b>RefSeq ORF:</b>	3072 bp
<b>Locus ID:</b>	74211
<b>UniProt ID:</b>	<u><a href="#">Q3TEI4</a></u>
<b>Cytogenetics:</b>	9 30.89 cM