

## Product datasheet for **MG210324**

### Plekhg3 (BC031136) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Plekhg3 (BC031136) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Plekhg3
Synonyms:	MGC40768
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG210324 representing BC031136  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCTTTGAGTCTGTTTCTTCCCTGCCAGAGTTGAGACAGATCCTGAGCCTGGGGCCGAGCAGGAGG  
 CCTTTGCGGCCTTGAAGGTCCCAGCACAGAGGAGATGCCTTCAGACCCAGAATTTCCAGAAGCCCTGGA  
 GACACAGCTTCATGCCCCCAAGGGGCTGCTAGGAGTGGACAACCCAGCTGCTGTGGTGGACTTTGTGGAG  
 CCTGAGGGGTCTGAAGACCTTAAGCCCCTGAGTAGTGAGGAGGAAGAAGAAGAGGAAATGGAAGCCGCC  
 AGGAGCCTGAGAGCCTCTGCCACCCTCTGTGCTGGACCAGGCCAGTGTCAATTGCTGAGAGATTCGCCAG  
 TAGCTTCTCTCGGCGGAGCAGCTGGCAATAGAGGATGGCAAATCCAGTGGTTTAGGGACACCACGGCTT  
 ATCAGCCGGAGCAGCAGTGTGCTTAGCCTGGAGGGCAGTGATAAGGGCCTAGCCCGATGGAGCAGCATCG  
 GGGACTCCCTCAGCAACCCACCCACCCAGAAGTGATCATTGGTGCAGACATGGTCACAGACAATGGCCC  
 TTCTGTCAATGGGACAGAATCTCCAAGTGCAGGCTCAGGCTGCCCCACGGAACAGGACAGATCTTCTGT  
 AAGAAAAAAGAATCAGCGTTGTCTACCCGAGACCGTCAGCTGCTGGACAAAATTAAGAACTACTATGAAA  
 ATGCAGAGCACCATGATGCTGGCTTCAGCATCCGTCGGCGGGAGAGCCTCTCCTATATCCCTAAAGGATT  
 GGTGCGCAGCTCTGTGTCCAGATTCAACAGCCTTCCCAAGCCAGATTGAGAGCCAGCAGCTCCAGTTGGG  
 TACAAGAGGCCGGGAGTTCTCGTCCAGCCTCATGGACCTTGTGGTACCTTCCAGGTCCCAGGACAGACA  
 AAGGGGACCCAGCTCCTATCACAGATGCTGAGTTCGTCATCTTCAGAAATGCAAAGATATGGGAAAG  
 AATGGAGTCTTCAGAGAGAAGTCCACGGACAGGGTCTGGCCAGAGCCAGGCCAATGGCTTTGAGCTACAA  
 GAGCCACTGTTTCATCTTGAGGAGCATGAACTGGGGCCATCACTGAGGAGTCTGCTGTGCGCTCTCCAG  
 AAAGTCCCTCCCCACCCAGCAACCCAGCCAGCCACCTGGCCCGGGAGCTCAAAGAGCTGGTGAAGA  
 GCTGAGCAGCAGTGTCCAGGGGAGCTGGTTACCCCACTGCACCCCGGATTGTGCAGCTCTCCCATGTG  
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 TTAAGAACATCAAGGCAGCTAGGCCACCTCTACAGTGGGAAAAAGTCACTCCTGACCAAGAGGAGCAGGT  
 CCCTTCCATTTCTGGCCTGCCTGAGGAAGCTGGAGAGCTGTGAGGGGCAAGCCAGGAGGAAGCCTGTG  
 CTATCCCTCCTCAGCTATGAGCAGCTGGTGGCTCAGGAGCATGGCACGTCCAAGTCTTCCGCTGCCGTGG  
 AAACCTCTCCACGCCGTTTCTCCTTCAGCCCTTCTGCTGTAGCCCAAGAACCACCTCACCTGGGGCTCG  
 GTCCTCTGCTCGGAGCCCCCTCAGCCCCCTTGACACCGAGACCTCAATTGGCCTGATGTCCGGGAGCTC  
 TGCTCAAATATACTTCCCACGACAAGACTGCTCAGGTCGAGAGCAGCTGGCCCCGTAGCCTGCTGGTCA  
 ACAGGAGTCGCTCCCTGCCCGAGAACATCGTAGAACCTCCCATGTCTGGCAAGGCCGACCCGCTGCTGTGG  
 CCTGAACACCCACAGGCGCTGGGAGATGGGGAAGCCTCCAGCCTCCACTTCTGAGTCTCTCCCCAA  
 AGCCAGCTGAATGGAGGCGACGCCCTGTATGTCACCGCAGACCTTACCCTGGAGAACAACCAGCGAGTGA  
 TCATTATGGAGAAGGGGCCCATCTAGCTCCACCGTGGGGCTGGAGGAAGACAGTGGGAAGGAATCAAG  
 TTCCCCAGTGGCTTTGAAGGGACAGGGCCAAGTTTCCAGGCGTCTGCAGAGTACCAGCCCAAAGAACAC  
 GGTCCCAGGACTCAGCAGACACAAACAAACAGGGTAGAGTGAGAAACCTGAGGGAGAAGTTCAGGCCT  
 TGAACCTGTGGGT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG210324 representing BC031136  
Red=Cloning site Green=Tags(s)

```
MSFESVSSLPEVETDPEPGAEQEAFAALEGPSTEEMPSDPEFPEALETQLHAPKGLLGVDNPAAVDFVE
PEGSEDLKPLSSEEEEEEMEAAQEPESLLPPSVLDQASVIAERFASSFRRSSLAIEDGKSSGLGTPRL
ISRSSSVLSLESDKGLARWSSIGDSLNPPTPEVIIGADMVTDNGPSVNGTESPSAGSGCPTQDRSSC
KKKESALSTRDRQLLDKIKNYENAEHHDAGFSIRRRESLSYIPKGLVRSSVSRFNSLPKPDSEPAAPVG
YKRPGSSRPASWTLFDLPGPRTDKGDPAPITDAEFRPSSEIAKIWERMESSERSPRTGSGQSQANGFELQ
EPLFILEEHHELGAITEESAVASPESASPTQPSPAHLARELKELVKELSSSVQGELVTPLHPRIQVLSHV
MDSHVSERVKNKVYQLARQYSLRIKNIKAARPLQWEKVTPDQEEQVPSISGLPEEAGELSGGKARRKPV
LSLLSYEQLVAQEHGTSKSSAAVETSPRRFSFSPSAVSPRTTSPGARSSARSPLSPFDTETFNWPDVREL
CSKYTSHDKTAQVESSWPRSLLVNRSRSLPENIVEPPMSGKADRCCLNTHRRLGDGEASQPPLPESPPQ
SQLNGGDALYVTADLTLENNQRVIIMEKGPHSPSTVGLLEDSGKESSPVALKGQGGFQASAEYQPKHE
GPRDSADTNKQGRVNRNLREKFQALNSVG
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC031136

**ORF Size:** 2187 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.

**RefSeq:** [BC031136.1](#)

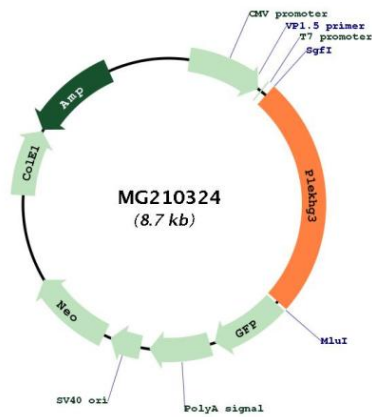
**RefSeq Size:** 3001 bp

**RefSeq ORF:** 2186 bp

**Locus ID:** 263406

**Cytogenetics:** 12 C3

**Product images:**



Circular map for MG210324