

Product datasheet for **MG205313**

2310037124Rik (BC003301) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	2310037124Rik
Synonyms:	2310037124Rik; B930009D17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG205313 representing BC003301
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGAAGAGCAACCCAGGCCCTATGGGTGAAACCCTCTTGCCAGTTGAGCTCATACGCTAAACAG
AGCTGGGCTCGCAGACCCAGAGAGCAGCCGAGTGAAGCCAGCCGGATCTGGATGAAGACAGCTGGAG
TGATGGGGACCGAAGCCATCACTGTGGATCAGACATGGAGAGGTGACCCTGACAGTGAAGCCGATAGC
ATAGACAGTGATCAAGAAGATCCCTGAAACATGCTGGTGTCTATACAGCTGAAGAAGTGGCTCTTATTA
TGAGAGAAAAGCTAATTCGTTTGCAGTCTTTGTACATTGATCAGTTTAAAGACTCCAACACCTGCTCAA
AGAGAAGAAGCGCCGCTATTTACACAACCGGAAAGTGGAGCAGGAGCTTTAGGTAGTAGTCTCCTGACT
GGCCCTGAGGGACTTTTGCCAAAGAGAGAGAGAATTTAAAGCGACTAAAATGTCTTAGGCGATACCGTC
AACGCTATGGAGTAGAAGCCTTACTACACAGGCAGCTGAAGGAACGCAGAATGCTGGCCACCGATGGGGC
TGCTCAACAGGCTCACACCACTCGTTCCAGTCAGAGGTGCTTAGCCTTTGTGGATGATGTGCGCTGCTCC
AATCAGTCTCTCCAATGACCAGACACTGCCTTACCCATATCTGTCAGGATACAAATCAGGTTCTCTTCA
AATGCTGCCAGGGATCTGAAGAGGTCCCCTGCAACAAACAGTTCCTGTAAGCCTTTCTGAGGATCCCTG
CTGCCCTCTGCATTTCCAGTTGCCTCCTCAGATGTATAAGCCCGAGCAGGACTTGGATGTTGTGGGTGAT
GGCATGCCATGCCCGCCGTCGCCATTGCTCTTTGATCCTTCGCTAACTCTTGAAGATCATTCAGTCACAG
AAAGTGCCGGAGAGCAGGACAGATGCAGGCGGCTGGGGATGGGTGCAGATCCAGGGAGCTCGAAGTGT
AGAGAAAGCAGCATTCCCTCAGCGTGGATTGGCTACTGCGAATGGAAAACGAGAACCCACTTCTATCAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG205313 representing BC003301
Red=Cloning site Green=Tags(s)

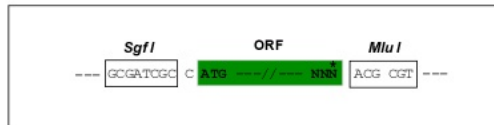
MKKSNNPGPMGETLLCQLSSYAKTELGSQTPSSRSEASRILEDSDSGDQEPITVDQTRGDPDSEADS
IDSDQEDPLKHAGVYTAEEVALIMREKLIRLQSLYIDQFKRLQHLLKEKKRRYLHNRKVEHEALGSSLLT
GPEGLLAKERENLKRLKCLRRYRQRYGVEALLHRQLKERRMLATDGAAQQAHTTRSSQRCLAFVDDVRCS
NQSLPMTRHCLTHICQDTNQVLFKCCQGSEEVPCNKPVPVSLSEDPCCPLHFQLPPQMYKPEQDLDDVVG
GMPCCPSPLLFDPSLTLEDHSVTESAGDAGQMQAAGDGCRSQGARSVEKAAFPQRLATANGKPEPTSIS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTACTAGTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - -

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - - -

--- GAA GAA AGA GTT TAA ACGGCCGCGCGGAGCT

- - E E R V Stop

ACCN: BC003301

ORF Size: 1050 bp

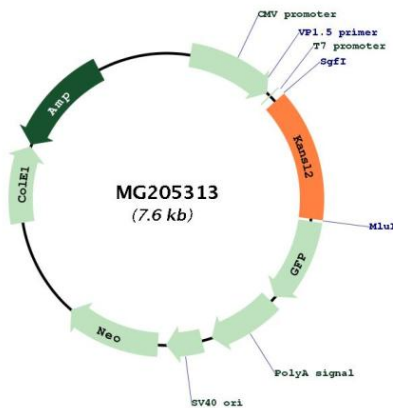
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>BC003301</u> , <u>AAH03301</u>
RefSeq Size:	2337 bp
RefSeq ORF:	1052 bp
Locus ID:	69612
Cytogenetics:	15 F1
Gene Summary:	As part of the NSL complex it is involved in acetylation of nucleosomal histone H4 on several lysine residues and therefore may be involved in the regulation of transcription. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205313