

Product datasheet for **MG212614**

AU040320 (NM_001035525) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AU040320 (NM_001035525) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: AU040320
Synonyms: A730047D20Rik; AAVR; Kiaa0319l
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG212614 representing NM_001035525
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAAGAGACTGGGAGTCAAGCCAAGTCCCCTTCTGGGTTTTGCCAGGATATTGTTGGCAGACAT
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CCTGCCACGCTCTATGGTGGCTGGAAGGATGTGCTTTCCAGGCTGACTGCAGTAAGCCCCAGAGCTGCCA
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CTGGTGTAGATCCCAAAGCCTGCAGCATATTGGCTGGTGGTGTAGGGCCCAAGTCTGCCATGAAACCTCA
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GAACCAGGACGAAGTCAGCTTTGGTCCATGGAAA
    
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG212614 representing NM_001035525

Red=Cloning site Green=Tags(s)

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MEKRLGVKPSPASWVLPGYCWQTSVKLPRSLYLLYSFFCFSVLWLSTDAESRCQQKTLYGAGLRTEGE
NHLRLLAGSLPFHACRAACCRDSACHALWWLEGMCFQADCSKPQSCQPFRTDSSNSMLIIFQKSQTDDL
GLLPEDDEPHLLRLGWGRTSWRRQSLGAPLTLVSPSSHQSLLRDRQKRDLSVVPHTGAMQHSKVNHSE
EAGALSPTSAEVRKTIIVAGSFTSNHTTQTPPEWPKNVSIIHPEPSEHSSPVSGTPQVKSTEHSPDAPLPV
APSYSYATPTPQASSQSTSAPHPVVKELVVSAGKSVQITLTKNEVQLNAFVLPFAEPGETYTYDQWLITH
PTDYSGEVERKHSQSLQLSKLTPGLYEFKVTVDGQNAHGEYVNVTVKPEPRKNRPPVAVVSPQFQEI SL
PTTSTIIDGSQSTDDDKIVQYHWEELKGPLREEKISEDTAILKLSKLVPGNYTFSLTVVDSGDATNSTTA
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SAMQEGDYTYQLTVTDTAGQQAATQVTVIVQPENNKPPQADAGPDKELTLPVDSTTLDGSKSTDDQRVVS
YLWEQSRGPDGVQLENANSSVATVTGLQVGTYYVFTLVKDERNLQSQSSVNVIVKEEINKPPVAKIAGNV
VVTLPSTAELDGRSSDDKGIIVSYLWTRDETSPAAGEVLNHSDDHHPVFLSNLVEGTYTFHLKVTDAKG
ESDTRDTTVEVKPDRKSNLVEIILDVNVSQLTERLKGMLIRQIGVLLGVLDSDIIVQKIQPYTEQSTKM
LFFVQNDPPHQLFKGHEVAAMLKSELQKQKADFLIFRALEISTVTCQLNCSDHGHCSFTKRCVCDPFWM
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KPTSRAGSKQKGPLLSSSLMHSELESDDAIFWPDREKGLLALHWCRSQSLQHIQGWCRAPVCHETS
STNSTPGSDSGFCKGKNLSSDYRTRTKSALVHGK
    
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TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja1721_f09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001035525

ORF Size: 3255 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: [NM_001035525.1](#), [NP_001030602.1](#)

RefSeq Size: 3697 bp

RefSeq ORF: 3258 bp

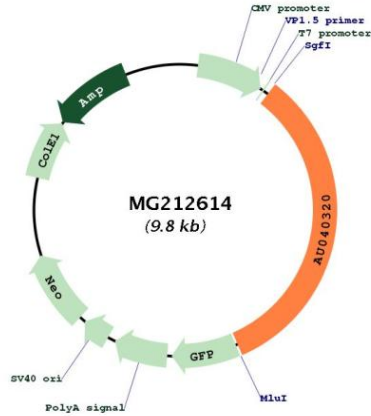
Locus ID: 100317

UniProt ID: [Q8K135](#)

Cytogenetics: 4 D2.2

Gene Summary: Possible role in axon guidance through interaction with RTN4R.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG212614