

Product datasheet for **MG211830**

Dopey2 (BC057081) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dopey2 (BC057081) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dopey2
Synonyms:	mKIAA0933, C21orf5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211830 representing BC057081 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGACAGTCCCTCCCATTGCTCCTGGGATACTGAAAGTCATTGCCGAGAAAACAGACTTCTATCAGA
GGGTGGCTCGTGTGCTCTGGAACCAGCTGAACAAGGAGACCCGTGAACATCACATCACCTGTGTAGAGCT
GTTCTACCGCCTGCACTGCCTGGCCCCGACTGCCAACATCTGTGAGGATATCATCTGCCATGCCCTCCTG
GACCCTGACAAGGAACAAGGTTGGAAGCTCTGTTTAGGTTTTCTGTGATCTGGCACCTGACACGAGAAA
TCCAAGGTAGTCGTGTGACGTCCACAATCGCTCCTTTGACAGGTCTTGTGTTGTCGTCCTGGATAGCCT
GGCTTGCACAGACGGTGTATCAGTGCAGCAGCCAGGGCTGGCTGGTGCAGCGCTCTCCCTCGGGGAT
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GTCTCAAGCAGGAGAAGTCAAGCCGAGGATTTACACCGTTGGTTAACAGGAAGAAGCCAGTGCAAAGA
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GCACACAGAGTCTGCAGACAGAGCTCTGGCCACACTGACAGTGAACAACATCCACTTTCTCATCTCCC
TCCCACGATCTGCAGGACCTGAGCCACGAGGAAAACCTGCTGTGCTCCGATCCCCATCGGGGACAGGCA
ACTCCAAGCGAGCGCCCTTGTGGCAGCCTTCCAGCCAGAAAGCCAGGTCCAATGCCAGGTTAAGCCT
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CTGCCTGAGTTCCTCCGCTCCTACTACCCTGCTACCTGAAGGCTGCCACAGGACATCCTTGGCAAC



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CGCGACGTGCAGGTCAAGAGCGTGGAGGTCCCTATTAGGATTACAGCACAGCTGGTCTCCATGGCCAAGT
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 CTTGACCAGTACCACCTACCTTCCCCTGATACAAGATGTTTCTTTTTTTCAGAGTTCTGCTGCTAAGA
 ATCTCTCCCAGCACCTGACCTCGCTGTGGCCATCATGGTGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211830 representing BC057081
 Red=Cloning site Green=Tags(s)

MVTVPPIAPGILKVIAEKTDYQVRVARVLWNQLNKETREHHITCVELFYRLHCLAPTANICEDIICHALL
 DPDKGTRLEALFRFSVIWHLTREIQGSRVTSNHRSFDRSLFVVLDSLACTDGAISAAAQGWLVRALSLGD
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 TAHLNLSINLLARHQEALIGQSFYGLQTPANVCPHSLLELLTYLCLSLRSYPCYLKVCHRDLGN
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 AIGAMQYVQPHPLTSQGLLVSAVVRGLQPAYGYGMHPAWVSLVTHSLPYFGKSLGWTVPFVIQICKNLD
 DLVKQYESESVKFTISTTSKKENISPDYPLTLLEGLTTISHFCLLEQPTQHKKTA AVSDP INLRNAKNAI
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 VLQFCYAFIQRLSIPDLQEAFPSLLGVLKEAQLNLAPPGYFLLSMLNDFVTRTPNLESKKDQKDLQEI
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 VLELFLDPAFFQMDTSCVHWKSVIDHLLTHEKTMFKDLMNMQSSSLKLFSSFEQKAMLLKRQAFVAVSGE
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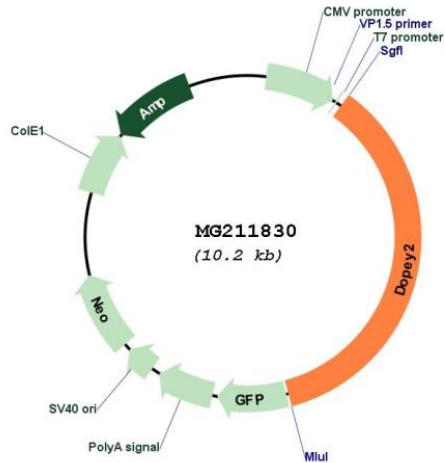
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: BC057081

ORF Size: 3684 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: [BC057081.1](#)

RefSeq Size: 4743 bp

RefSeq ORF: 3686 bp

Locus ID: 70028

Cytogenetics: 16 C4

Gene Summary: May be involved in protein traffic between late Golgi and early endosomes.[UniProtKB/Swiss-Prot Function]