

Product datasheet for **MC208407**

Drg1 (NM_007879) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Drg1 (NM_007879) Mouse Untagged Clone
Tag: Tag Free
Symbol: Drg1
Synonyms: AA408859; AI132520; DRG-1; NEDD-3; Nedd3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC208407 representing NM_007879
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGCGGGACCTTAGCGAAGATCGCGGAGATCGAAGCCGAGATGGCTCGGACTCAGAAGAACAAGCCA
CAGCTCATCACCTTGGCCTGCTTAAGGCTCGCCTTGCTAACTTCGAAGAGAAGCTCATCACTCCTAAAGG
TGGCGGGCGGGGGGCCAGGAGAAGGTTTTGATGTGGCCAAGACAGGTGATGCTCGAATTGGGTTTGTG
GGTTTTCCATCTGTGGGAAATCAACTCTGCTAAGTAACTTAGCAGGAGTGTATTCTGAAGTGGCAGCCT
ATGAATCACTACATTGACCACAGTGCCTGGTGTATCAGATATAAAGGTGCCAAGATCCAGCTCCTGGA
TCTCCCGGATATTATTGAAGGTGCCAAGGATGGGAAAGGTAGAGGTGCTCAAGTCATTGCAGTGGCCCGA
ACGTGTAATTTGATTTTATTGTTCTGGATGTCCTAAAACCTTGGGACATAAGAAGATAATTGAAAATG
AGTTGGAAGGCTTTGGGATTTCGCTTGAACAGCAAACCCCAACATTGGCTTTAAGAAGAAAGACAAGGG
AGGCATTAACCTCACAGCCACTTGCTCAGAGTGAAGTGGATGCTGAAACAGTGAAGAGCATTCTGGCT
GAATATAAGATTCATAATGCTGATGTGACTTTGCGTAGTGATGCCACAGCTGACGACCTCATTGACGTGG
TCGAAGGGAACAGAGTTTATATCCCTGTATCTATGATTAATAAGATTGATCAGATCTCCATTGAGGA
GTTGGATATTATCTATAAGGTGCCTCACTGTGTACCCATCTCTGCTCATCACCGCTGGAATTTTGTGAC
CTTTTGGAGAAAATCTGGGACTATCTGAAACTAGTGAGAAATTTACACCAAACCGAAAGGCCAGTTACCAG
ATTACACATCTCCAGTAGTGTGCCTTATTCTAGGACCACTGTGGAAGATTTCTGCATGAAGATTCACAA
AAATCTCATCAAAGAATTTAAATATGCTTTGGTCTGGGTCTGTCTGTGAAACATAATCCTCAGAAAGTG
GGTAAAGACCACACATTGGAAGATGAAGACGTCATTGAGATTGTGAAGAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_007879



Insert Size:	1104 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	<u>NM_007879.1</u> , <u>NP_031905.1</u>
RefSeq Size:	1524 bp
RefSeq ORF:	1104 bp
Locus ID:	13494
UniProt ID:	<u>P32233</u>
Cytogenetics:	11 A1
Gene Summary:	Catalyzes the conversion of GTP to GDP through hydrolysis of the gamma-phosphate bond in GTP. Appears to have an intrinsic GTPase activity that is stimulated by ZC3H15/DFRP1 binding likely by increasing the affinity for the potassium ions. When hydroxylated at C-3 of 'Lys-22' by JMJD7, may bind to RNA and play a role in translation. Binds to microtubules and promotes microtubule polymerization and bundling that are required for mitotic spindle assembly during prophase to anaphase transition. GTPase activity is not necessary for these microtubule-related functions.[UniProtKB/Swiss-Prot Function]