

Product datasheet for SC321213

DRG1 (NM_004147) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: DRG1 (NM_004147) Human Untagged Clone
Tag: Tag Free
Symbol: DRG1
Synonyms: NEDD3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004147.3
GGTGGCGGTGGCAGTTTCCCGCGGGTGTGTGAAGGGAGACAGTGTGGAGCCACAGGGT
ACTCGCCACGATGAGCAGCACCTTAGCTAAGATCGCGGAGATAGAAGCAGAGATGGCTCG
GACTCAAAAGAACAAGGCCACAGCACACCACTTAGGGCTGCTTAAGGCTCGTCTTGCTAA
GCTTCGTCGAGAACTCATTACTCCAAAGGGTGGTGGTGGTGGAGGTCCAGGAGAAGGTTT
TGATGTGGCCAAGACAGGTGATGCTCGAATTGGATTTGTTGGTTTTCCATCTGTGGGGAA
GTCAACACTGCTTAGTAACCTGGCAGGGGTATATTCTGAGGTGGCAGCCTATGAATTCAC
TACTCTGACCACTGTGCCTGGTGTGCATCAGATACAAAGGTGCCAAGATCCAGCTCCTGGA
TCTCCCAGGTATCATTGAAGGTGCCAAGGATGGGAAAGGTAGAGGTGTCAGTCAAGTCATTGC
AGTGGCCCGAACCTGTAACCTTGATCTTGATTGTTCTGGATGTCTGAAACCTTTGGGACA
TAAGAAGATAATTGAAAATGAGCTGGAAGGCTTTGGCATTGCTTGAACAGCAAACCCCA
CAACATTGGCTTTAAGAAGAAGGACAAGGGAGGCATTAATCTCACAGCCACTTGCCCCCA
GAGTGAGCTGGATGCTGAACTGTGAAGAGCATTCTGGCTGAATACAAGATTCATAATGC
CGATGTGACTCTACGTAGTGATGCTACAGCTGATGACCTCATTGATGTGGTGGAAGGAAA
CAGAGTTTATATCCCCTGTATCTATGTGTTAAATAAGATTGACCAAACTCCATTGAGGA
ATTGGATATCATCTATAAGGTGCCTCACTGTGTACCCATCTGCCCATCACCCTGGAA
TTTTGATGACCTATTGAAAAGATCTGGGACTATCTGAACTAGTGAGAAATTTACACCAA
ACCCAAAGGCCAGTTACCAGATTACACATCCCCAGTGGTGCTTCCCTACTCCAGGACCAC
AGTGGAGGATTTCTGCATGAAGATTCACAAAAATCTTATCAAAGAATTTAAATATGCTCT
GGTCTGGGGTCTCTCTGTGAAACACAATCCTCAGAAAGTGGGTAAGACCATAACGTTGGA
GGATGAGGATGTCATTCAAATTGTGAAGAAGTGAACCTTTCCCTTTTCCCATCTGCCGG
ACGAACCAACACAGCTTCCCCATGATCAAGCACCCCTACCCAGTTCTTTCTGGTTTTGG
CAGTCACTGGATCAGGATCCAGGGGAGGAGATGGAGGCACCCAACTGGAACCTCATT
GTCTTACCTTGGTGTACCTTGATGTCGAACTGCATAAAAGATCTGGTAGGCTGGTCAG
CTACATGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire



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ACCN:	NM_004147
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_004147.3</u> , <u>NP_004138.1</u>
RefSeq Size:	1467 bp
RefSeq ORF:	1104 bp
Locus ID:	4733
UniProt ID:	<u>Q9Y295</u>
Cytogenetics:	22q12.2
Domains:	TGS, GTP1_OBG
Protein Families:	Transcription Factors
Gene Summary:	Catalyzes the conversion of GTP to GDP through hydrolysis of the gamma-phosphate bond in GTP (PubMed:29915238, PubMed:23711155). Appears to have an intrinsic GTPase activity that is stimulated by ZC3H15/DFRP1 binding likely by increasing the affinity for the potassium ions (PubMed:23711155). When hydroxylated at C-3 of 'Lys-22' by JMJD7, may bind to RNA and play a role in translation (PubMed:19819225, PubMed:29915238). Binds to microtubules and promotes microtubule polymerization and stability that are required for mitotic spindle assembly during prophase to anaphase transition. GTPase activity is not necessary for these microtubule-related functions (PubMed:28855639).[UniProtKB/Swiss-Prot Function]