

Product datasheet for **RG201753**

DRG2 (NM_001388) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DRG2 (NM_001388) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DRG2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201753 representing NM_001388 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGATCTTAGAGAAGATCTCGGAGATCGAGAAGGAGATCGCTCGGACACAGAAGAACAAGGCCACTG
AGTATCATCTGGGCTGCTGAAAGCTAAGCTCGCCAAGTATCGGGCCAGCTCCTGGAACCGTCCAAATC
GGCCTCGTCCAAAGGAGAGGGCTTTGATGTCATGAAGTCGGGTGATGCCCGTGTGGCGCTGATTGGATTT
CCCTCTGTGGGTAAAGTCCACATTCTTGAGTCTGATGACCTCCACGGCCAGCGAGGCAGCGTCCTATGAGT
TCACCACTCTGACGTGTATTCTGGGGTCATTGAATACAAAGGTGCCAACATCCAGCTCCTGGACCTTCC
TGGAAATCATTGAAGGCGCAGCCCAAGGAAAAGGCCGTGGCCGGCAGGTGATCGCTGTGGCGCGCACGGCT
GACGTCATCATCATGATGCTGGATGCCACCAAGGAGAGGTGCAGAGGTCTCTGCTGGAGAAGGAGCTGG
AGTCTGTGGGCATCCGCCTCAACAAGCACAAGCCTAACATCTACTTCAAGCCCAAGAAAGGTGGTGGCAT
CTCCTTTAACTCGACAGTCATGCTGACCCAGTGCTCGGAAAAGCTGGTGCAGTCATCCTGCACGAATAC
AAGATCTTCAATGCAGAAGTGCTTTCCGAGAAGACTGCTCCCCGGACGAGTTCATCGATGTGATCGTGG
GCAACCGGGTGTACATGCCCTGCCTGTATGTTTATAACAAAATCGACCAGATCTCCATGGAAGAGGTGGA
CCGCCTGGCCGAAAACCAACAGTGTGGTCATCAGCTGCGGCATGAAGCTGAACCTGGACTATCTGCTG
GAGATGCTTTGGGAGTACTTGGCCCTGACCTGCATCTACACCAAGAAGAGAGGACAGAGGCCAGACTTCA
CAGACGCCATCATTCTCCGAAAAGGGGCCCTCAGTGGAGCACGTGTGCCACCGCATCCACCGGTCACTCGC
CAGCCAGTTCAAGTACGCCCTGGTGTGGGGCACCAGCACCAAGTACAGTCCGACGCGGTGGGCCTGACC
CACACCATGGAGCATGAGGACGTCATCCAGATCGTGAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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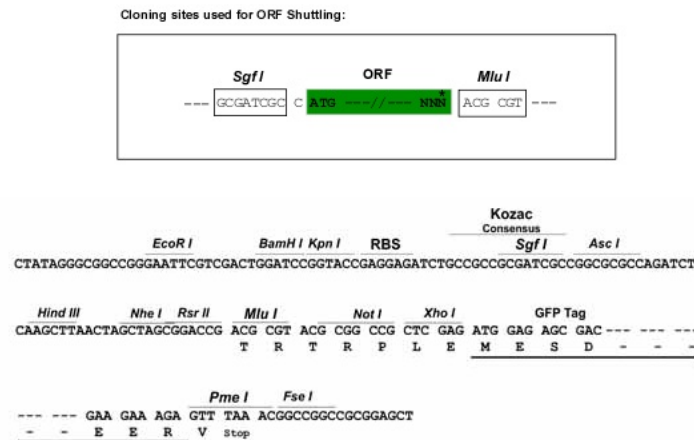
Protein Sequence: >RG201753 representing NM_001388
 Red=Cloning site Green=Tags(s)

MGILEKISEIEKEIARTQKNKATEYHLGLLKAKLAKYRAQLLEPSKSASSKGEGFDMKSGDARVALIGF
 PSVGKSTFLSLMTSTASEAASYEFTTLCIPGVIEYKGANIQLLDLPGLIEGAAQKGRGRQVIAVARTA
 DVIIMMLDATKGEVQRSLLEKELESVGIRLNKHKPNIFYFKPKGGGISFNSTVMLTQCSEKLVQLILHEY
 KIFNAEVLFREDCSPDEFIDVIVGNRVYMPCLYVYNKIDQISMEEVDRLARKPNSVVISCGMKLNLDYLL
 EMLWEYLALTCIYTKRQRPDFTDAIILRKGSVEHVCHRIHRSLASQFKYALVWGTSTKYSPQRVGLT
 HTMEHEDVIQIVKK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001388

ORF Size: 1092 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: [NM_001388.3](#), [NP_001379.1](#)

RefSeq Size: 1888 bp

RefSeq ORF: 1095 bp

Locus ID: 1819

UniProt ID: [P55039](#)

Cytogenetics: 17p11.2

Domains: TGS, GTP1_OBG

Gene Summary: This gene encodes a GTP-binding protein known to function in the regulation of cell growth and differentiation. Read-through transcripts containing this gene and a downstream gene have been identified, but they are not thought to encode a fusion protein. This gene is located within the Smith-Magenis syndrome region on chromosome 17. [provided by RefSeq, Jan 2012]

Product images:



Circular map for RG201753