

## Product datasheet for **RG206160**

### DIRAS1 (NM\_145173) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DIRAS1 (NM\_145173) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** DIRAS1  
**Synonyms:** Di-Ras1; GBTS1; RIG  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG206160 representing NM\_145173  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGGAACAGAGTAACGATTACCGCGTGGTGGTGTTCGGGGCGGGCGCGTGGGCAAGAGCTCGCTGG  
TGCTGCGCTTCGTGAAGGGCACGTTCCGCGACACCTACATCCCCACCATCGAGGACACCTACCGGCAGGT  
GATCAGCTGCGACAAGAGCGTGTGCACGCTGCAGATCACAGACACCACCGGCAGCCACCAGTTCCCGGCC  
ATGCAGCGCTGCCATCTCCAAGGGCCACGCCTTCATCTGGTGTTCCTCGTCACCAGCAAGCAGTCCG  
TGGAGGAGCTGGGGCCCATCTACAAGCTCATCGTGCAGATCAAGGGCAGCGTGGAGGACATCCCCGTGAT  
GCTCGTGGGCAACAAGTGCATGAGACGACGCGGAGGTGGACACGCGCAGGCGCAGGCGGTGGCCAG  
GAGTGGAAAGTGCCTTTCATGGAGACCTCGGCCAAGATGAACTACAACGTCAAGGAGCTCTTCCAGGAGC  
TGCTGACGCTGGAGACGCGCCGGAACATGAGCCTCAACATCGACGGCAAGCGCTCCGGGAAGCAGAAGAG  
GACAGACCGCGTCAAGGGCAAATGCACCCTCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG206160 representing NM\_145173  
Red=Cloning site Green=Tags(s)

MPEQSNDYRVVVFGAGGVGKSSLVLRVFKGTFRDYIPTIEDTYRQVISCDKSVCTLQITDTTGSHQFPA  
MQRLSISKGHAFILVFSVTSKQSLLEELGPIYKLIQIKGSVEDIPVMLVGNKCDETQREVDTREAVAQ  
EWKCAFMETSAKMNYNVKELFQELLTLETRRNMSLNIDGKRSGKQKRTDRVKGKCTLM

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**


**ACCN:** NM\_145173

**ORF Size:** 594 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\\_145173.4](#)

**RefSeq Size:** 3391 bp

**RefSeq ORF:** 597 bp

**Locus ID:** 148252

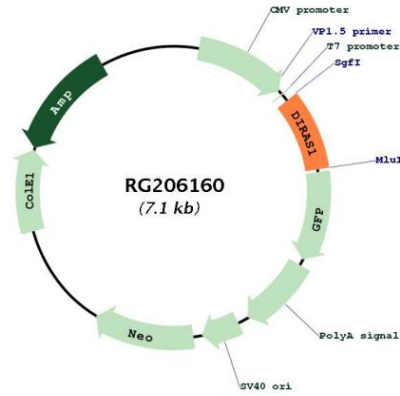
**UniProt ID:** [O95057](#)

**Cytogenetics:** 19p13.3

**Domains:** ras, RAS, RHO, RAB

**Gene Summary:** DIRAS1 belongs to a distinct branch of the functionally diverse Ras (see HRAS; MIM 190020) superfamily of monomeric GTPases.[supplied by OMIM, Apr 2004]

**Product images:**



Circular map for RG206160