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Product datasheet for RC206160

DIRAS1 (NM_145173) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIRAS1 (NM_145173) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DIRAS1
Synonyms:	Di-Ras1; GBTS1; RIG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

```
>RC206160 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGGAACAGAGTAACGATTACCGCGTGGTGGTGTTCGGGGCGGGCGGCGTGGGCAAGAGCTCGCTGG
TGCTGCGCTTCGTGAAGGGCACGTTCCGCGACACCTACATCCCCACCATCGAGGACACCTACCGGCAGGT
GATCAGCTGCGACAAGAGCGTGTGCACGCTGCAGATCACAGACACCACCGGCAGCCACCAGTTCCCGGCC
ATGCAGCGCCTGTCCATCTCCAAGGGCCACGCCTTCATCCTGGTGTTCTCCGTCACCAGCAAGCAGTCGC
TGGAGGAGCTGGGGCCCATCTACAAGCTCATCGTGCAGATCAAGGGCAGCGTGGAGGACATCCCCGTGAT
GCTCGTGGGCAACAAGTGCGATGAGACGCAGCGGGAGGTGGACACGCGCGAGGCGCAGGCGGTGGCCCAG
GAGTGGAAGTGCGCTTTCATGGAGACCTCGGCCAAGATGAACTACAACGTCAAGGAGCTCTTCCAGGAGC
TGCTGACGCTGGAGACGCGCCGGAACATGAGCCTCAACATCGACGGCAAGCGCTCCGGGAAGCAGAAGAG
GACAGACCGCGTCAAGGGCAAATGCACCCTCATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

Protein Sequence:

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>RC206160 protein sequence
Red=Cloning site Green=Tags(s)

MPEQSNDYRVVVFGAGGVGKSSLVLRFVKGTFRDTYIPTIEDTYRQVISCDKSVCTLQITDTTGSHQFPA
MQRLSISKGHAFILVFSVTSKQSLEELGPIYKLIVQIKGSVEDIPVMLVGNKCDETQREVDTREAQAVAQ
EWKCAFMETSAKMNYNVKELFQELLTLETRRNMSLNIDGKRSGKQKRTDRVKGKCTLM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

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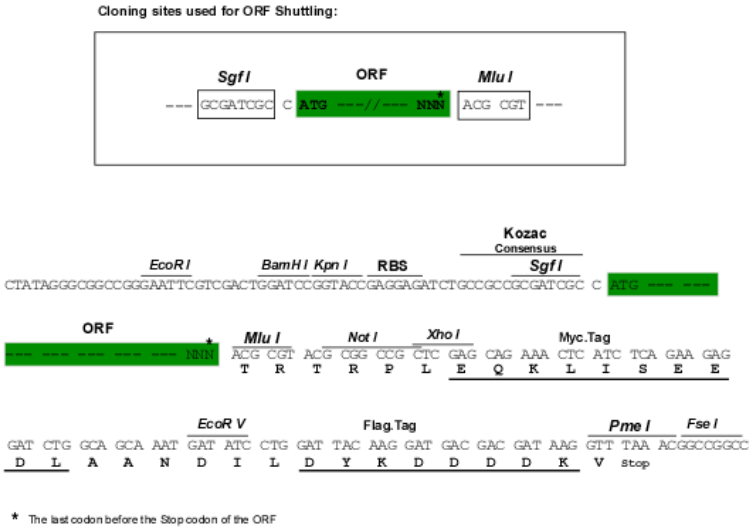
Chromatograms: https://cdn.origene.com/chromatograms/mk6317_e10.zip

Restriction Sites: SgfI-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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_145173.4

RefSeq Size: 3412 bp

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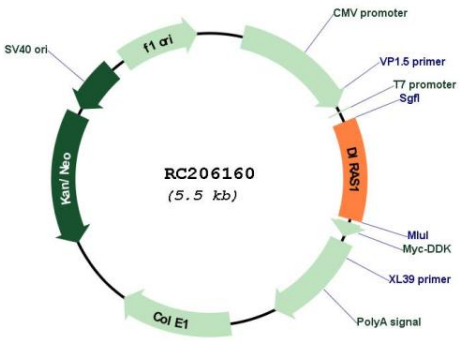
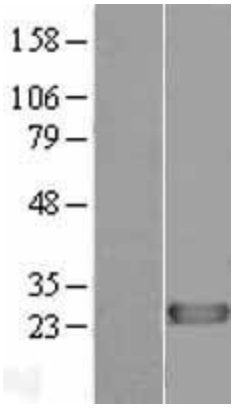
RefSeq ORF:	597 bp
Locus ID:	148252
UniProt ID:	O95057
Cytogenetics:	19p13.3
Domains:	ras, RAS, RHO, RAB
MW:	22.3 kDa
Gene Summary:	DIRAS1 belongs to a distinct branch of the functionally diverse Ras (see HRAS; MIM 190020) superfamily of monomeric GTPases.[supplied by OMIM, Apr 2004]

Product images:



Circular map for RC206160



Western blot validation of overexpression lysate (Cat# [LY408035]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206160 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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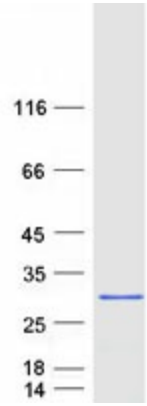

Coomassie blue staining of purified DIRAS1 protein (Cat# [TP306160]). The protein was produced from HEK293T cells transfected with DIRAS1 cDNA clone (Cat# RC206160) using MegaTran 2.0 (Cat# [TT210002]).

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