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Product datasheet for RC233284

Dexras1 (RASD1) (NM_001199989) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dexras1 (RASD1) (NM_001199989) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dexras1
Synonyms:	AGS1; DEXRAS1; MGC:26290
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC233284 representing NM_001199989
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAACTGGCCGCGATGATCAAGAAGATGTGCCCGAGCGACTCGGAGCTGAGTATCCCGGCCAAGAACT
GCTATCGCATGGTCATCCTCGGCTCGTCCAAGGTGGGCAAGACGGCCATCGTGTCGCGCTTCCTCACCGG
CCGCTTCGAGGACGCCTACACGCCTACCATCGAGGACTTCCACCGCAAGTTCTACTCCATCCGCGGCGAG
GTCTACCAGCTCGACATCCTCGACACGTCCGGCAACCACCCGTTCCCCGCCATGCGGCGCCTCTCCATCC
TCACAGATCCTCGACACCAAGTCTTGCCTCAAGAACAAAACCAAGGAGAACGTGGACGTGCCCCTGGTCA
TCTGCGGCAACAAGGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC233284 representing NM_001199989
Red=Cloning site Green=Tags(s)

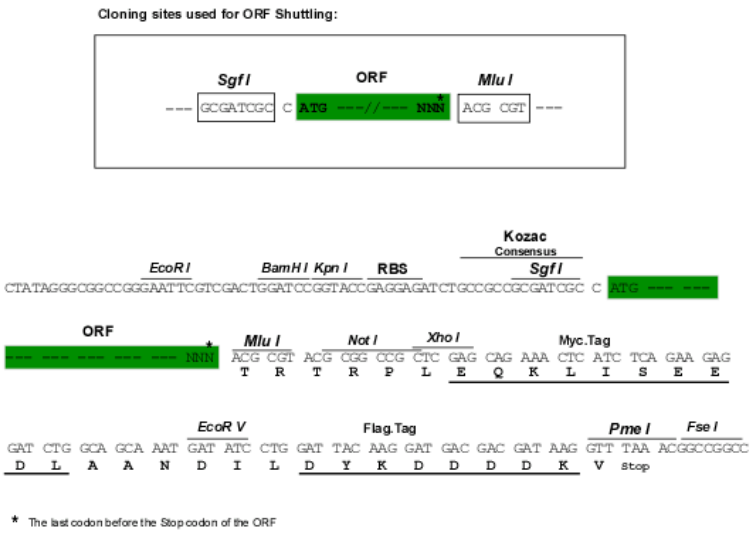
MKLAAMIKKMCPSDSELSIPAKNCYRMVILGSSKVGKTAIVSRFLTGRFEDAYTPTIEDFHRKFYSIRGE
VYQLDILDTSGNHPFPAMRRLSILTDPRHQVLPQEQNQGERGRAPGHLRQQG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_001199989

ORF Size: 366 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.

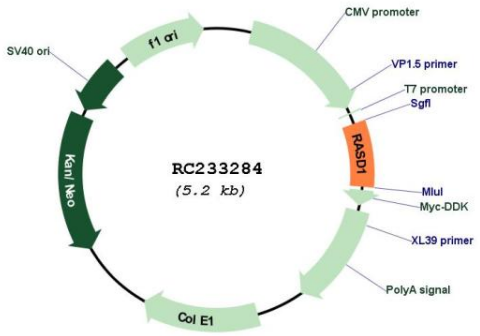
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001199989.2

RefSeq Size: 1740 bp

RefSeq ORF:	369 bp
Locus ID:	51655
UniProt ID:	Q9Y272
Cytogenetics:	17p11.2
Protein Families:	Druggable Genome
MW:	14.3 kDa
Gene Summary:	This gene encodes a member of the Ras superfamily of small GTPases and is induced by dexamethasone. The encoded protein is an activator of G-protein signaling and acts as a direct nucleotide exchange factor for Gi-Go proteins. This protein interacts with the neuronal nitric oxide adaptor protein CAPON, and a nuclear adaptor protein FE65, which interacts with the Alzheimer's disease amyloid precursor protein. This gene may play a role in dexamethasone-induced alterations in cell morphology, growth and cell-extracellular matrix interactions. Epigenetic inactivation of this gene is closely correlated with resistance to dexamethasone in multiple myeloma cells. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2011]

Product images:



Circular map for RC233284