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Product datasheet for MR203784

Rasd1 (NM_009026) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rasd1 (NM_009026) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rasd1
Synonyms:	Dexr; Dexras1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR203784 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAACTGGCCGCGATGATCAAGAAGATGTGCCCAAGCGACTCTGAACTGAGTATCCCGGCCAAGAACT
GCTACAGGATGGTCATCCTCGGCTCATCCAAAGTGGGCAAGACGGCCATTGTGTCGCGCTTCCTCACGGG
CCGTTTCGAGGATGCTTACACCCCTACCATCGAGGACTTCCACCGAAAGTTTTACTCGATCCGCGGCGAA
GTCTACCAGTTGGACATACTGGACACATCCGGCAATCATCCGTTTCCCGCCATGCGGCGCCTCTCTATCC
TCACAGGAGACGTTTTCATTCTGGTGTTCAGCTTAGACAACCGCGACTCATTCGAAGAGGTGCAAAGGCT
CAAACAGCAGATCCTAGACACCAAGTCCTGTCTCAAGAACAAAACCAAAGAGAATGTGGACGTGCCGCTG
GTCATTTGCGGTAACAAAGGGGACCGGGACTTCTACCGGGAAGTAGAGCAGCGGGAGATTGAGCAGCTGG
TGGGTGACGACCCTCAGCGTTGTGCCTACTTCGAGATCTCAGCCAAGAAGAACAGCAGCTTGGACCAGAT
GTTCCGTGCGCTCTTTGCCATGGCCAAGCTGCCTAGCGAGATGAGCCCCGACTTGCACCGCAAGGTATCT
GTGCAGTACTGCGACGTACTGCACAAGAAGGCTCTGAGGAACAAGAAGCTTCTGCGTGCGGGCAGCGGAG
GCGGGGGCGACCACGGCGATGCCTTTGGCATCTTGGCGCCCTTTGCTCGCAGACCCAGCGTGCACAGCGA
CCTCATGTACATTCGTGAAAAAACCAGTGTCGGCAGCCAGGCTAAGGACAAGGAGCGCTGTGTCATCAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

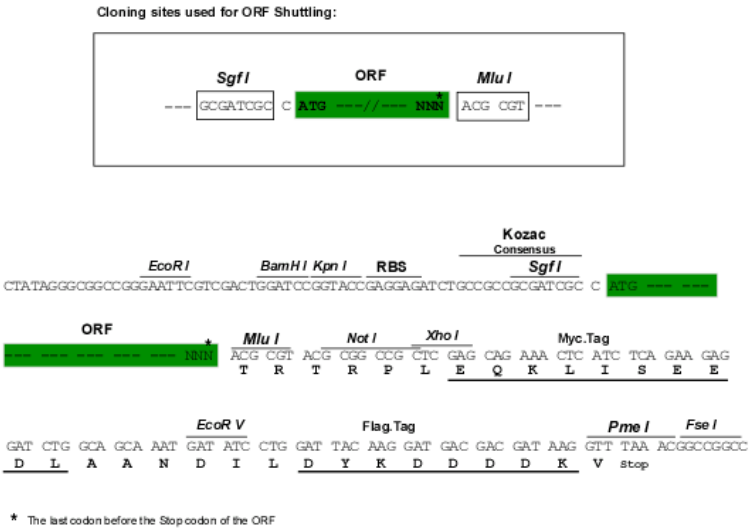
>MR203784 protein sequence
Red=Cloning site Green=Tags(s)

MKLAAMIKKMCPSDSELSIPAKNCYRMVILGSSKVGKTAIVSRFLTGRFEDAYTPTIEDFHRKFYSIRGE
VYQLDILDTSGNHPFPAMRRLSILTGDVFILVFSLDNRDSFEEVQRLKQQILDTKSCLKNKTKENVDVPL
VICGNKGDRDFYREVEQREIEQLVGDDPQRCAYFEISAKKNSSLDQMFRALFAMAKLPSEMSPDLHRKVS
VQYCDVLHKKALRNKKLLRAGSGGGGDHGDAFGILAPFARRPSVHSDLMYIREKTSVGSQAKDKERCVIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009026

ORF Size: 840 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_009026.5

RefSeq Size: 1609 bp

RefSeq ORF: 843 bp

Locus ID: 19416

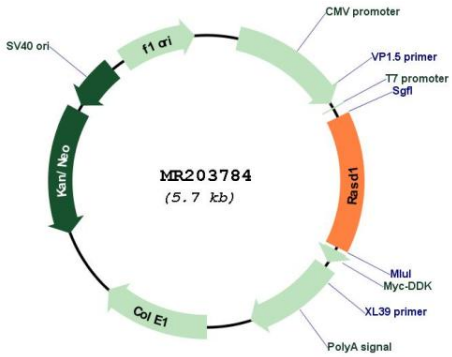
UniProt ID: O35626

Cytogenetics: 11 B1.3

MW: 31.7 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 gene may play a role in dexamethasone-induced alterations in cell morphology, growth and cell-extracellular matrix interactions. [provided by RefSeq, Nov 2015]

Product images:



Circular map for MR203784