

Product datasheet for MR225445

NdrG4 (NM_001195006) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NdrG4 (NM_001195006) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NdrG4
Synonyms:	D8Bwg1337e; Ndr1-rs; Ndr4; R74996; SMAP-8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225445 representing NM_001195006 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGAGTGTGGGATGGGAACATGACATCGAGACGCCTTATGGACTTCTGCATGTGGTGATCCGGG
GCTCTCCAAAGGAACCGCCAGCCATCTCACCTACCATGATGTGGGTCTCAATCACAAGCTGTGCTT
CAACACCTTCTCAACTTTGAGGACATGCAGGAGATCACCAAACACTTTGTGGTGTCCACGTGGATGCC
CCTGGGCAGCAGGTGGGAGCGTCACAGTCCCTCAGGGGTACCAGTTCCTCCATGGAGCAGCTGGCCG
CCATGCTCCCGAGTGTGGTACAGCACTTTGGGTTAAGTACGTGATTGGCATTGGAGTGGGAGCCGGAGC
CTACGTGCTGGCCAAGTTTGCACTCATCTCCCTGACCTGGTGGAGGGGCTGGTGTGATGAACATTGAC
CCCAACGGCAAAGGCTGGATTGACTGGGCTGCCACCAAGCTCTCTGGCTTGACCAGCACTTTACCAGACA
CTGTACTCTCCCATCTCTTCAGCCAGGAGGAGCTGGTGAACAACACGGAGCTGGTGCAGAGCTACCGGCA
GCAGATCTCAAACGTGGTGAACCAGGCCAACCTGCAGCTCTTCTGGAACATGTACAACAGCCGAGAGAC
CTTGATATTAACCGACCTGGGACGGTGCCCAATGCCAAGACACTCCGCTGCCAGTGATGCTGGTAGTCG
GAGATAATGCACCTGCTGAGGAAGGGTGGTTGAGTGTAACTCCAACCTGGACCAACCACTACGACCTT
CCTGAAGATGGCAGATTCTGGTGGTCTTCTCAGGTGACACAACCAGGGAAGCTGACTGAGGCCTTCAAG
TACTTCTGCAAGGCATGGGCTACATTGCACACTTGAAGGACCGAAGGCTGAGTGGAGGAGCAGTGCCT
CAGCCAGCATGACCCGCTCGCACGCTCACGTACCGCTCCCTCACCAGCGCCAGTTCCTGGACGGCAG
CCGCCCTCAGCCCTGCGCCCACTCAGACAGCAGTGAGGGGATGGGCCAGGTCAACCACACCATGGAGGTG
TCCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR225445 representing NM_001195006
Red=Cloning site Green=Tags(s)

MPECWDGEHDIETPYGLLHVIVIRGSPKGNRPAILTYHDVGLNHHKLCFNTFFNFEDMQEITKHFVCHVDA
 PGQVVGASQFPQGYQFPSMEQLAAMLPSVVQHFGFKYVIGIVGAGAYVLAKFALIFPDLVEGLVLMNID
 PNGKGWIDWAATKLSGLTSTLPDVTLSHLFSQEELVNTELVSQRQIINNVNQANLQLFWMYNSRRD
 LDINRPGTVPNAKTLRCPVMLVVDNAPAEEGVVECNKLDPTTTTFLKMSGGLPQVTQPGKLEAFK
 YFLQGMGYIAHLKDRRLSGGAVPSASMTLARSRTASLTSASSVDGSRQPCHAHSSEGMQVNHMTMEV
 SC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001195006

ORF Size: 1056 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_001195006.2](#)

RefSeq Size: 2966 bp

RefSeq ORF: 1059 bp

Locus ID: 234593

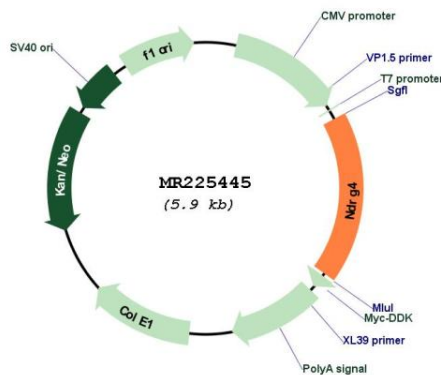
UniProt ID: [Q8BTG7](#)

Cytogenetics: 8 D1

MW: 39 kDa

Gene Summary: Contributes to the maintenance of intracerebral BDNF levels within the normal range, which is necessary for the preservation of spatial learning and the resistance to neuronal cell death caused by ischemic stress. May enhance growth factor-induced ERK1 and ERK2 phosphorylation. May attenuate NGF-promoted ELK1 phosphorylation in a microtubule-dependent manner.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225445