

Product datasheet for **RR212049**

Egr4 (NM_019137) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Egr4 (NM_019137) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Egr4
Synonyms:	Egr4l1; NGFI-C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR212049 representing NM_019137
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTCCACCTGAGCGACTTCTCCGGCCCCGACGCGCTCCTCTCCAAGCCACCGAAGGCTGCGCCACA
 CCAGCCCCGAGCTGCCCGGCTGCCTGCTAGGGACGCTCCCTCGGCCCGCGGTATCCTGGAGGCGACTT
 CTTGAGCTGGGCTCTGAGCACCTGCGGCCCGGGGGGACTTAACAGACTCCTGTTCTGGAGGGCCCT
 GCACCCACGCCCCCTTCGGGCTCAGCTACAGCGGCAGCTTCTTCATCCAGGCGGTTCCCGAACACCCGC
 ACGACCCGGAGGCCCTTCAACCTCATGTCTGGCATCTTGGGCTTGGCACCCCTCCCTAGCCCCGAGGC
 GGCAGCGTCTCGGTCCCCCTGGATGTCCCTTCCCGCGGGTCCCGATGCCTTGTGCCGGACCTTAC
 TCCCGGATCTGAGTTCGGCCGCTTCCCGAGGCGTTTTGGGAGGCCGCGCTTCGGCGGGCGCTCCCT
 CGCAGTGCCTGTTCGAGCCCCAGCTCTCCCGCCGACGCTCAAGCCGGGCTGAGGGCGCTCCCGCTTC
 GCCAGCGTGGAGCTGTGCTTCGGCCTTCAAAGGGCCCTACGCCCTGGGAGCTGTGTCCGGCCGG
 GCTCCGGGGAACGTGGGTGCGCAGGGAAGCTTCCAGACCACCCCGGAGGCACGCTTTCCGCCGTGGGGA
 CCAAGGTCGAGGACCTGTGTCCATCAGCTGCCCGCCGAGCTGCCCGGTCCGGCTAGCAGACTCTACCC
 GCCAGGGGCTACGATGCCTTCTCGCTGGCCCCAGGTGACTTAGGGGAGGGGACCGAGGGCTCCCGGCG
 CTGCTGACCCCTCCGGCGGGGAGGGAGGGAGCGCGCGCAAGGCGGAGAGTTCTCGGCCGTCCCTCAAG
 CGCAGCTGTCCCGCTGGGCTGCGCGGCGCCGACGGCAGACTTCTCAAAGCCCTGGTGGCCGACCT
 CCCGGGGGACGCGGAGTGGCGGCGCTTATCCCGCCACCTCCTTCCCGCGGCCAAAGCCCGGCGC
 AAGGGACGCCGGGGCGCAAGTGCAGCGCGCGCTGCTTCTGCCCGCGCCGACGCTCAAGGCCTTCGCT
 GCCCGTGGAGAGCTGCGTGGGACGTTGCGCGCTCCGACGAGCTCAACCGCCACCTGCCATCCACAC
 GGGCCACAAGCCCTTCCAGTGCCGATCTGCCTGCGCAACTTACGCCGACGACACCTACCACGAC
 GTGCGCACCCACACCGGCGAGAAGCCCTTCGCTGCGACGTGTGCGGCCCGCTTCGCGCGCAGCGACG
 AGAAGAAGCGACACAGCAAGGTGCACCTCAAGCAGAAGGCGCGCCGAGGAGCGCTCAAGGGCTGG
 CTTCTACTCGCTGGGCTCTCTTCGCCGCGCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR212049 representing NM_019137
 Red=Cloning site Green=Tags(s)

MLHLSDFSGPDALLSKPTEGCAHTSPELPRLPARDAPSAAYPGGDFLSWALSTCGAGGDLTDSCFLEGP
 APTPPSGLSYSGSFFIQAVPEHPHDPEALFNLMGILGLAPFSPPEAAASRPLDVFPAGPDALLPDLY
 SPDLSSAAFPEAFWEAAPSAGAPSQCLFEPQLSPPDVKPLRAPPASPALDAAASAFKGPYAPWELL SAG
 APGNCGSQGSFQTTPPEARFSAVGTKVEDLLSISCPAELPGPASRLYPPGAYDAFSLAPGDLGEGTEGLPA
 LLTPPGEGGSGGEGEFLAVPQAQLSPLGLRGAATADF SKALVADLPGGSGVAAPSSPATSFPAAKARR
 KGRRGGKCSARFCPRPHVKAFACPVESCVRTFARSDELNRHLRIHTGHKPFQCRICLRNFSRSDHLTTH
 VRHTTGEKPFACDVCRRFARSDEKKRHSKVHLKQKARAEERLKGLGFYSLGLSFAAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_019137

ORF Size: 1434 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_019137.1](#), [NP_062010.1](#)
RefSeq Size: 2145 bp

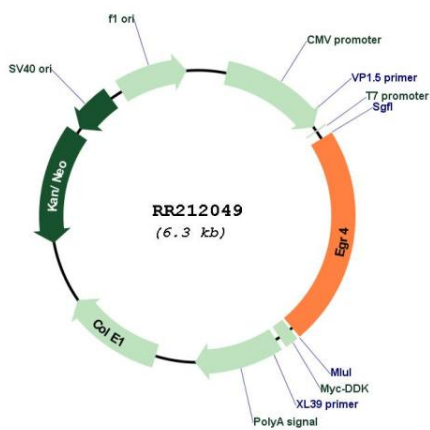
RefSeq ORF: 1437 bp

Locus ID: 25129

UniProt ID: [Q00911](#)

Cytogenetics: 4q34
MW: 49.7 kDa
Gene Summary: acts as a transcriptional activator [RGD, Feb 2006]

Product images:



Circular map for RR212049