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Product datasheet for MR210819

Prom2 (NM_178047) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prom2 (NM_178047) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prom2
Synonyms:	AI507243; Prom-rp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR210819 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGCGCTCACCCGGCCTCATGGTGCCCCTGCTGGGCCTGAGCCTGGGACTGGCCCTGAGCCTGCCCG
AAGCTGTGACAGACGACTGCGGGTCCCTCGGGCGCGTGGAGCACCTGGCATTCGCTCGGGTGCCCAGGAC
ACGAGAGCTGGCCCCTCTTGTTCGCGCGTCGGGGCCCCTGAACTCCCTCTATGGCACCGTGCGACGATTC
CTCTCCGTGGTTCAACTTAACCCCTTCCCGGCAGAGTTGATAAAGACCCTGCTGAATGACCCATCTTCTG
TGAAGACAGATGAGGTGGTTCGATATGAGGCAGGCTACGTGGTGTGTGCTGTGATTGCTGGCCTCTACCT
CCTATTGGTGCCCATCACTGGGCTCTGCTTCTGTTGCTGTCGCTGCCGCCAGCGCTGTGGGGGCAGAGTG
AAGACGGAGCACAAGGCCATGGCCTGTGAACGTGGTACCCTCATGATCTTCCTGCTGCTGACCACCCTCG
TGCTTCTGATTGGTATGGTCTGTGCTTTTGCTACAAACCAACACACACATAGTCAGACGGGGCCCAGTGT
GAAAGCTGTCCCTGAGACCCTGCTCAGCCTAAGAGGCCTGGTCTCTGATGTCCCTGAAGAGCTGCGGGCC
ATTGCTGAGCAGTTCTCTGTGCCTCAGAAGCAAGTCTCAAAGGAGCTGGATGGTGTTGGTGAGAACCTTG
GGAACGTAATTCATAACCGGCTCAAGAGCACAGTGTACCCAGTGCTAGCCTCAGTGCACAGCCTGGGCCA
GGCCCTGCAGGTCTCCATAGACCACCTTCGAGCCCTGAACACCACCTCAGTGGAGCTGCAGGAGGCTCAG
CGGCACCTGGAGCCACCTGTGCAGGCGCACCGGGAACGCCTGCTCGCCCTGCTTCAGGACAGCTGGTGCC
ACGAGGAGAATTGCAAGCGGGTGCTCAGCCAGGCCGGTGCTCTGCAACTGGGCGCTGACTTTAGCCAGAC
GCCCCCTGTGGATGATGTCCTGCATCGGCTGAAGGATGTCCCAGAAACCAACTTCTCCAGCATGGTCCAG
GAGGAGAAAGCCACCTTCAATAACCTCCCGCTCCTGGTTCAAGTGCAGGCGGTCAGTGTGGTCAAAGATG
TGAAAAAGGCACTGGCTGAGCAGCCTGAAGGGTTGAGGATGCTGGCCCAAGCGTTCCCAGGTTCAGAGGC
AGCCTCCCGCTGGAGCCAGGCACTGGAGGGGCTGGAACAGCGCAGCCGCCCCTACTTGCAGGAGGTGCAA
CAATATGAGACATACAGGTGGATTTTGGGATGCGTGCTGTGCTCTGCCATCCTGCTTGTGGTGATCTGTA
ACCTGCTGGGCCTCAGCCTGGGCATCTGGGGGTTGTTTGCCAGGGAGGACCCCAGCCACTCTGAAACCAA
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CTCCTCGTCTTCGTCACTTTCCTGGTGGGTGGCAATGTGCAGACGCTGGTGTGCCGGAGCTGGGAGAGTG
GAGAGCTGTATGAGTTTGCAGACACTCCGGGGAACTTGCCACCATCCATGAACCTATCCTATCTTCTTGG
CCTGAAGAAAAACATCAGCATCGTCCAGGCCTATCGACAGTGTAAGGCAGGGGCAGTACTCTGGAAGGTT
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AGGAGCTTCAGAGCTTCCAAGTAGATTTGAAGGAGCTAGACCTGTTGAGCCCCACTGCCCGCCAGGACCT
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AATACCTCAGACTTTCTTGACAGTGTCACTCGTCTAAAAGGAGAGCTGCCTGTGCAGATCAACCACATCC
TGAGGAATGCCACTGAGTGTTTCCTGACCAGGGAAATGGGCTACTTCTCTCAGTATGTGACCTGGGTGAG
AGCAGAGGTGACTCAGCGCATCGCCACCTGCCAGCCCTTCTCTACAGCCCTGGACAATGGTCATGTGATC
CTGTGTGACATGATGGCTGACCCCTGGAACGCCTTCTGGTTTTGCCTGGGGTGGTGCACCTTCTTCCTCA
TCCCCAGCATCATCTTCGCTGTCAAGACCTCCAAGTACTTCCGTCCCATCCGGAAACGCCTCAGGGTCAC
CTCTCTGAAGCTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

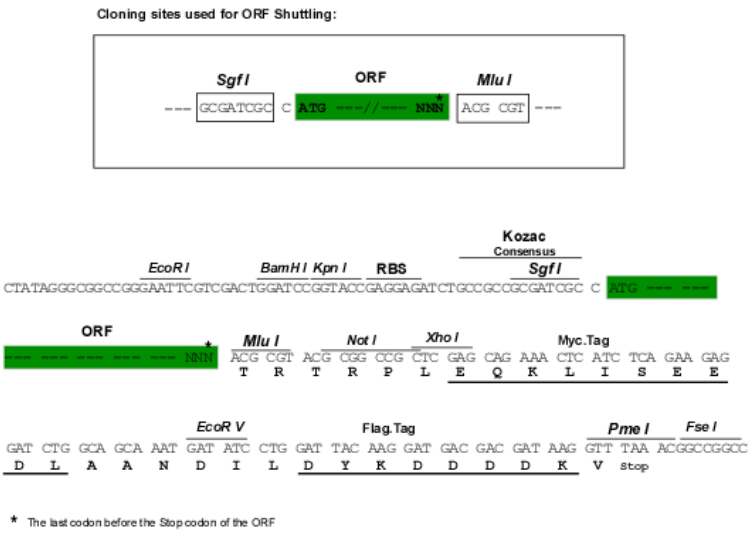
>MR210819 protein sequence
Red=Cloning site Green=Tags(s)

MTRSPGLMVPLLGLSLGLALSLPEAVTDDCGSLGRVEHLAFARVPRTRELAPLVRASGPLNSLYGTVRRF
LSVVQLNPFPAELIKTLLNDPSSVKTDEVVRYEAGYVVCAVIAGLYLLLVPITGLCFCCCRCRQRCGGRV
KTEHKAMACERGTLMIFLLLTTLVLLIGMVCAFATNQHTHSQTGPSVKAVPETLLSLRGLVSDVPEELRA
IAEQFSVPQKQVSKELDGVGENLGNVIHNRLKSTVYPVLASVHSLGQALQVSIDHLRALNTTSVELQEAQ
RHLEPPVQAHRERLLALLQDSWCHEENCKRVLSQAGALQLGADFSQTPPVDDVLHRLKDVPETNFSSMVQ
EEKATFNNLPLLVQVQAVSVVKDVKKALAEQPEGLRMLAQAFPGSEAASRWSQALEGLEQRSRPYLQEVQ
QYETYRWILGCVLCSAILLVVICNLLGLSLGIWGLFAREDPSHSETKGEAGARLLMAGVAFSFLFAVPLI
LLVFVTFLVGGNVQTLVCRSWESGELYEFADTPGNLPPSMNLSYLLGLKKNISIVQAYRQCKAGAVLWKV
LQLNDSYDLDKHLDIKQYTHKIQQELQSFQVDLKELDLLSPTARQDLEALQRSGLEKIHYRGFLVQIQKP
VVNTDMWQLAQELEGLAQAQNDSLLRQQLREEARELRSLYQEKVVPQESLVTKLNFSVKTLESLAPSLQV
NTSDFLDSVTRLKGELPVQINHILRNATECFLTREMGYFSQYVTWVRAEVTQRIATCQPFSTALDNGHVI
LCDMMADPWNAFWFCLGWCTFFLIPSIIFAVKTSKYFRPIRKRLRVTSLKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_178047

ORF Size: 2463 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_178047.4, NP_835148.2

RefSeq Size: 4224 bp

RefSeq ORF: 2466 bp

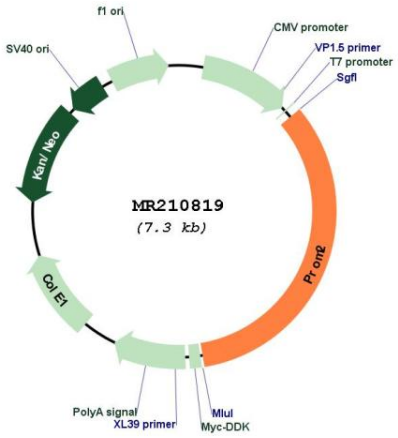
Locus ID: 192212

UniProt ID: Q3UUY6

Cytogenetics: 2 F1

MW: 91.7 kDa

Product images:



Circular map for MR210819