

Product datasheet for **MR222800**

Rax (NM_013833) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rax (NM_013833) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rax
Synonyms:	7530406A22Rik; E130303K03Rik; ey-1; ey1; Rx
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222800 representing NM_013833 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCACCTGCCGGGCTGCGCGCCAGCCATGGCGGACGGGAGCTTCTCGCTCGCTGGCCACCTGCTCCGCA
GCCCCGGGCGGGAGCAGTCGCGTTTGCACAGCATCGAAGCCATCCTGGGCTTTACCAAGGAAGACGGCAT
CCTAGACACCTTTCCTGCAGAGAGGAGCTCCAGGAGCTCGAAAGAGCGGGATCCAGGCTGGGCGCGCAG
CCTGCCTGCCCAAGGCGCCAGCCGAGGCTCCGAGTCTTCCCCACCAGCAGCCCGGGATTCTGTCCTCGG
AGTACGAAGCTACTAGGCCCTGCTACCCAAGGAGCAAGGAGAAGCAGTCGAGCCAGGACTCTCGGT
TGGGCCAGCAGCAGGCGACTCGAAGCTGTGCGAGGAGGAACCTCCAAGAAGAAGCATCGACGCAACCGC
ACGACGTTACCACTTACCAACTGCACGAGCTGGAGCGCGCCTTCGAGAAGTCCCACTACCCGACGTGT
ACAGCCGCGAAGAGCTGGCCGGCAAGGTTAACCTACCCGAGGTTCCGGTCCAGGTATGGTTCCAGAACCG
ACGGGCTAAGTGGAGGCGCCAGGAGAACTGGAAGTGTGTCATGAAGCTGCAGGATTCTCCCTCCTC
TCCTTCAGCCGCTCCCGCCTTCTCGGCACTGGCCCCGCTGGGAACCGGCCCGGCGAGCGGGAGCGGAC
CTCCGGGAGCGCCCTGCCGCTGGAGCCGTGGCTTGGGCCACCGCTGCCCGGAGGAGCGCCACAGCGCT
GCAGAGCCTGCCGGGATTCTGGCCGCGGGGCAAGGTCTCCCGCCAGCTACACGCCACCACCGCCCTTC
CTGAACCTCCGCGCCCTGGGTCCAGGTCTGCAGCAGCTCGGGCCACCGCCCGGTACCCCTGCGCGCCGG
CATTCGGGGACAAGTTCTCGCTGGAAGAGGCGTACCCGCGCAACAGCAGCATCGCCGCTCTGCGCCTGAA
GGCCAAAGAGCACATCCAGGCCATCGGAAAGCCCTGGCAAGCCCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222800 representing NM_013833
 Red=Cloning site Green=Tags(s)

MHLPGCAPAMADGSFSLAGHLLRSPGGSTRLHSIEAILGFTKEDGILDTFPAERSSRSSKERDPRLGAQ
 PACPKAPAGGSESSPPAAPGFVPEYEATRPCYPKEQGEARPSGLSVGPAAGDSKLSEEEPPKKHRRNR
 TTFTTYQLHELERAFAEKSHYPDVYSREELAGKVNLEVRVQVWFQNRRAKWRREQLEVSSMKLQDSPLL
 SFSRSPSSALAPLGTGPGSGSGPPGSALPLEPWLGPPLPGGGATALQSLPGFGPPGQGLPASYP PPPF
 LNSAPLGPGLQQLGPPPAYPCAPAFGDKFSLEEAYPRNSSIAALRLKAKEHIQAIGKPWQAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9036_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013833

ORF Size: 1026 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_013833.2](#), [NP_038861.2](#)

RefSeq Size: 1687 bp

RefSeq ORF: 1029 bp

Locus ID: 19434

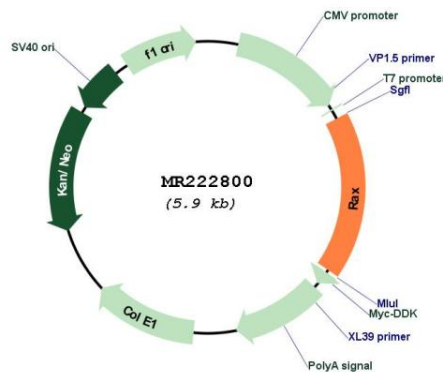
UniProt ID: [O35602](#)

Cytogenetics: 18 39.03 cM

MW: 36.8 kDa

Gene Summary: Plays a critical role in eye formation by regulating the initial specification of retinal cells and/or their subsequent proliferation. Binds to the photoreceptor conserved element-I (PCE-1/Ret 1) in the photoreceptor cell-specific arrestin promoter (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222800