

Product datasheet for **RG219896**

RAX (NM_013435) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAX (NM_013435) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RAX
Synonyms:	MCOP3; RX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219896 representing NM_013435 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCACCTGCCGGGCTGCGCGCCAGCCATGGCCGACGGGAGCTTCTCGCTTGCCGGCCACCTGCTCCGCA
GCCCGGGCGGGAGCACCTCGCGACTTCACAGCATCGAGGCCATCCTGGGGTTTACCAAGGACGACGGGAT
CCTCGGCACCTTCCCGGCGGAGCGGGGCGCCCGGGGCGCAAGGAGCGGGATAGGAGGCTGGCGCGCGG
CCCGCTGCCCAAGGCGCCGAGGAAGGCTCCGAGCCCTCCCGCCGCCAGCCCGCGCCCGCCCGCC
AGTACGAAGCCCTCGACCTACTGCCCAAGGAGCCCTGGGAGGCACGCGCGAGCCAGGGCTGCCCGT
CGGGCCAGCCACCGCGAAGCGAACTGTCAAGAGGAAACAGCCCAAGAAAAGCATCGGCGGAACCGC
ACGACTTTCACCACGTACCAGCTGCATGAGCTGGAGCGCGCTTCGAGAAGTCCCACTACCCGGAGCTGT
ACAGCCGCGAGGAGCTGGCCGGCAAGGTCAACCTACCAGAGGTCCGGGTCCAGGTGTGGTTCCAGAACC
ACGGGCTAAGTGGCGGCGCAGGAGAAGCTGGAAGTGTCTCCATGAAGCTGCAGGACTCGCCCTCCTC
TCCTTCAGCCGCTCCCGCCCTCCGCGACGCTGTCCCGCTCGGGGCGGGCCCGGCAGCGGTGGCGGGC
CGGCTGGGGCGCGCTGCCGCTGGAGTCTGGCTCGGGCCCGCGTGCAGGCGGGGCGCCACGGCGCT
GCAGAGCCTGCCGGCTTCGGCCCGCGCGCAGAGCTGCCTGCCAGCTACACGCCACCGCCCGCCCTCCTACC
CGGCCCTCCTGAACTCCCGCCGTTGGGCCCGCCGCTGCAACCTCTCGCGCCCGCCCGCCCTCCTACC
CGTGGCGCCCGGCTTCGGGACAAGTTCCTCGCTGGACGAGGCGGACCCGCGCAACAGCAGCATCGCGGC
GCTGCGTCTGAAAGCAAGGAGCACATCCAGGCCATCGGGAAGCCGTGGCAGGCCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219896 representing NM_013435
 Red=Cloning site Green=Tags(s)

MHLPGCAPAMADGSFSLAGHLLRSPGGSTRLHSIEAILGFTKDDGILGTFPAERGARGAKERDRRLGAR
 PACPKAPEEGSEPSPPPAPAPAPEYEAPRPYCPKEPWEARSPGLPVGPATGEAKLSEEEQPKKKHRRNR
 TTFTTYQLHELERAFESHYPDVYSREELAGKVNLEPEVRVQVWFQNRRAKWRRQEKLEVSSMKLQDSPLL
 SFSRSPPSATLSPLGAGPGSGGGPAGGALPLESWLGPPLPGGGATALQSLPGFGPPAQSLPASYPPTPPP
 PPFLNSPPLGGLQLAPPPPSYPCGPGFGDKFPLDEADPRNSSIAALRLKAKEHIQAIGKPWQAL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013435

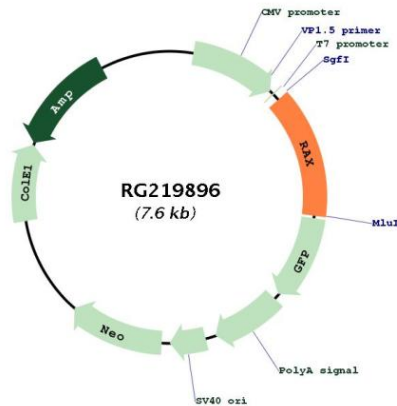
ORF Size: 1038 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none"> 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:	<u>NM_013435.1, NP_038463.1</u>
RefSeq Size:	1775 bp
RefSeq ORF:	1041 bp
Locus ID:	30062
UniProt ID:	<u>Q9Y2V3</u>
Cytogenetics:	18q21.32
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a homeobox-containing transcription factor that functions in eye development. The gene is expressed early in the eye primordia, and is required for retinal cell fate determination and also regulates stem cell proliferation. Mutations in this gene have been reported in patients with defects in ocular development, including microphthalmia, anophthalmia, and coloboma.[provided by RefSeq, Oct 2009]

Product images:


Circular map for RG219896