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Product datasheet for RG216709

PAX1 (NM_006192) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PAX1
Synonyms:	HUP48; OFC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG216709 representing NM_006192
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCAGACGTATGGCGAGGTGAACCAGCTGGGCGGTGTGTTCGTCAACGGCCGCCCCCTGCCCAACG
CCATCCGCTTGCGCATTGTGGAGCTGGCGCAGCTGGGCATCCGACCCTGTGACATCAGTCGGCAGCTCCG
CGTATCCCACGGCTGCGTGAGCAAGATCCTGGCGCGCTACAACGAGACCGGCTCCATTCTGCCCGGGGCC
ATCGGGGGGAGCAAGCCCCGCGTCACCACTCCCAACGTGGTCAAGCACATCCGGGACTACAAGCAAGGAG
ACCCTGGCATCTTTGCCTGGGAGATCCGCGACCGGCTGCTGGCCGACGGCGTCTGTGACAAGTACAATGT
GCCTTCGGTGAGCTCCATCAGCCGCATCCTGCGCAACAAGATCGGCAGCCTGGCGCAGCCCGGACCGTAC
GAGGCAAGTAAGCAGCCGCCGTCGCAGCCTACGCTGCCCTACAACCACATCTACCAGTACCCCTACCCCA
GTCCCGTGTCGCCCACGGGCGCCAAGATGGGCAGCCACCCCGGGGTCCCGGGCACGGCGGGCCACGTCAG
CATCCCGCGCTCATGGCCCTCGGCACACTCGGTCAGCAACATCCTGGGCATCCGGACGTTTATGGAGCAA
ACAGGGGCCCTGGCTGGGAGCGAAGGCACCGCTTACTCTCCCAAGATGGAAGACTGGGCCGGCGTGAACC
GCACGGCCTTCCCCGCCACCCCCGCAGTGAATGGGCTAGAGAAACCTGCCTTAGAGGCAGACATTAAATA
CACTCAGTCGGCCTCCACCCTCTCTGCCGTGGGCGGCTTTCTCCCCGCCTGCGCCTACCCGGCCTCCAAC
CAGCACGGCGTGTACAGCGCCCCGGGCGGCGGCTACCTCGCCCCGGGCCCGCCGTGGCCGCCTGCGCAAG
GTCCTCCTCTGGCGCCCCCCGGGGCCGGCGTAGCTGTGCATGGCGGGGAACTCGCGGCAGCAATGACCTT
CAAGCATCCCAGCCGAGAAGGAAGCCTCCCAGCTCCGGCAGCAAGGCCCCGGACGCCCTCAGTAGCTTAC
ACGGACTGCCCATCCCGGCCTCGACCTCCTAGGGGCAGCTCTCCCCGGACCCGAGCCCGGAGGGAACGGC
AGGCGGACCCGGGCGCACAGGTCTGCGCGGCGGCCCCGGCAATCGGCACGGGCAGGATCGGAGGACTCGC
GGAGGAGGAAGCCAGTGCCGGCCCGCGGGGTGCACGCCCAGCCAGCCCCCAGGCCCAGCCCTGCCTCTGG
CCGGACCCACCACACTTCCTTTATTGGTCTGGGTTTTTAGGCTTCTCTGAACTTGGGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

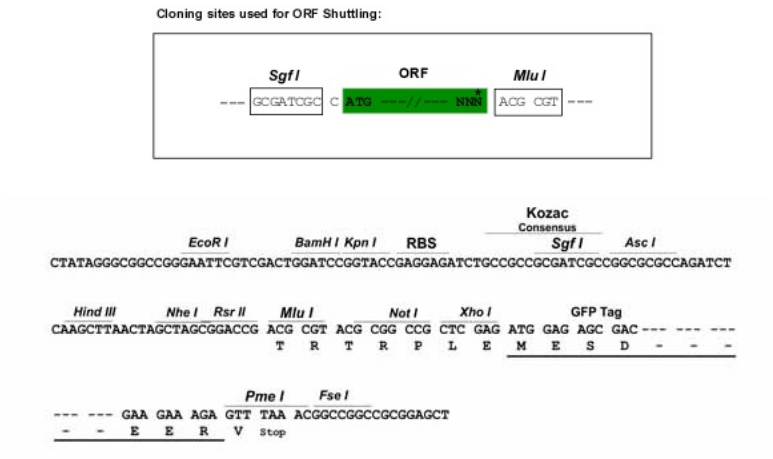
>RG216709 representing NM_006192
Red=Cloning site Green=Tags(s)

MEQTYGEVNQLGGVFVNGRPLPNAIRLRIVELAQLGIRPCDISRQLRVSHGCVSKILARYNETGSILPGA
IGGSKPRVTTPNVVKHIRDYKQGDPGIFAWEIRDRLLADGVCDKYNVPSVSSISRILRNKIGSLAQPGPY
EASKQPPSQPTLPYNHIYQYPYPSPVSPTGAKMGSHPGVPGTAGHVSIPRSWPSAHSVSNILGIRTFMEQ
TGALAGSEGTAYSPKMEDWAGVNRTAFPATPAVNGLEKPALEADIKYTQSASTLSAVGGFLPACAYPASN
QHGVYSAPGGGYLAPGPPWPPAQGPPLAPPGAGVAVHGGELAAAMTFKHPSREGSLPAPAARPRTPSVAY
TDCPSRPRPPRGSSPRTRARRERQADPGAQVCAAAPAIGTGRIGGLAEEEASAGPRGARPASPQAQPCLW
PDPPHFLYWSGFLGFSELGF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006192

ORF Size: 1320 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).

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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_006192.2, NP_006183.1
RefSeq Size:	2771 bp
RefSeq ORF:	1605 bp
Locus ID:	5075
UniProt ID:	P15863
Cytogenetics:	20p11.22
Gene Summary:	This gene is a member of the paired box (PAX) family of transcription factors. Members of the PAX family typically contain a paired box domain and a paired-type homeodomain. These genes play critical roles during fetal development. This gene plays a role in pattern formation during embryogenesis and may be essential for development of the vertebral column. This gene is silenced by methylation in ovarian and cervical cancers and may be a tumor suppressor gene. Mutations in this gene are also associated with vertebral malformations. [provided by RefSeq, Mar 2012]

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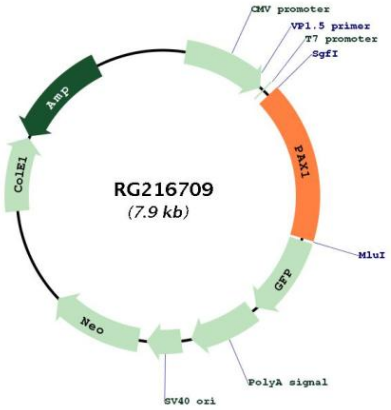
Product images:



Circular map for RG216709

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