

Product datasheet for RC200380

PAX9 (NM_006194) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAX9 (NM_006194) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PAX9
Synonyms:	STHAG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200380 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCAGCCTTCGGGGAGGTGAACCAGCTGGGAGGAGTGTTCTGTAACGGGAGGCCGCTGCCCAACG
CCATCCGGCTTCGCATCGTGAACCTGGCCAACTGGGCATCCGACCGTGTGACATCAGCCGCCAGCTACG
GGTCTCGCACGGCTGCGTCAGCAAGATCCTGGCGGATACAACGAGACGGGCTCGATCTTGCCAGGAGCC
ATCGGGGGCAGCAAGCCCGGGTCACTACCCCAACCGTGGTAAACACATCCGGACCTACAAGCAGAGAG
ACCCCGGCATCTTCGCCTGGGAGATCCGGGACCGCCTGCTGGCGGACGGCGTGTGCGACAAGTACAATGT
GCCCTCCGTGAGCTCCATCAGCCGATTCTGCGCAACAAGATCGGCAACTTGGCCAGCAGGGTCATTAC
GACTCATAACAAGCAGCACCAGCCGACGCCGACGCCAGCGTGCCTACAACCACATCTACTCGTACCCCA
GCCCTATCACGGCGGGCCGCCAAGGTGCCACGCCACCCGGGGTGCCTGCCATCCCGGTTTCGGTGGC
CATGCCGCGCACCTGGCCCTCCTCGCACTCCGTACCCGACATCCTGGGCATCCGCTCCATCACCGACCAA
GTGAGCGACAGCTCCCCCTACCACAGCCCAAGGTGGAGGAGTGGAGCAGCCTGGGCCGCAACAATTCC
CCGCCCGCCCGCCGATGCGGTGAACGGGTTGGAGAAGGGAGCCCTGGAGCAGGAAGCAAGTACGGTCA
GGCACCAAAATGGTCTCCAGCTGTGGGCAGTTTTGTGTGTCAGCATCCAGCATGGCTCCTTACCCTACCCCA
GCCCAAGTGTGCTTACATGACCTACAGTGTGCTCCTTCTGGTTATGTTGCTGGACATGGGTGGCAAC
ATGCTGGGGCACCTCATTGTCTCCCAACTGTGACATTCGGCATCGCTGGCGTTCAAGGGAATGCA
GGCAGCCAGAGAAGGTAGTCATTCTGTACGGGTTCCGCGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC200380 protein sequence
Red=Cloning site Green=Tags(s)

MEPAFGEVNLGGVFNVRPLPNAIRLRIVELAQLGIRPCDISRQLRVSHGCVSKILARYNETGSILPGA
 IGGSKPRVTTPTVVKHIRTYKQRDPGIFAWIIRDRLLADGVCDKYNVPSVSSISRILRNKIGNLAQQGHY
 DSYKQHQPALPNYHIYSYSPITAAAAKVPTPPGVPAIPGSVAMPRTWPSSHSVTDILGIRSITDQ
 VSDSSPYHSPKVEEWSSLRNNFPAAPHAVNGLEKGALEQEAKYQAPNGLPAVGSFVSASSMAPYPTP
 AQVSPYMTYSAAPSGYVAGHWQHAGGTSLSPHNCDIPASLAFKGMQAAREGSHSVTASAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6081_b08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_006194

ORF Size: 1023 bp

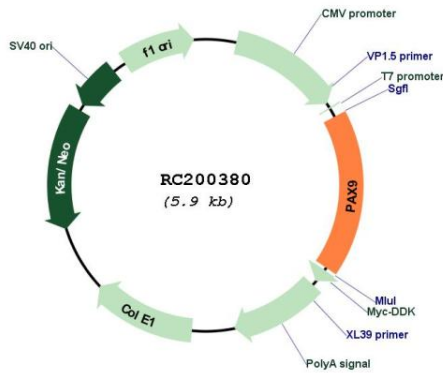
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

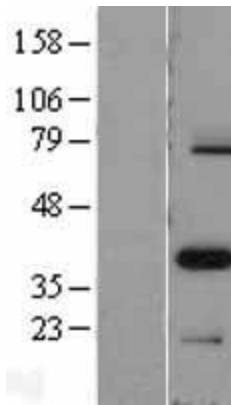
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_006194.3
RefSeq Size:	3122 bp
RefSeq ORF:	1026 bp
Locus ID:	5083
UniProt ID:	P55771
Cytogenetics:	14q13.3
Protein Families:	Druggable Genome, Transcription Factors
MW:	36.3 kDa
Gene Summary:	<p>This gene is a member of the paired box (PAX) family of transcription factors. Members of this gene family typically contain a paired box domain, an octapeptide, and a paired-type homeodomain. These genes play critical roles during fetal development and cancer growth. Mice lacking this gene exhibit impaired development of organs, musculature and the skeleton, including absent and abnormally developed teeth, and neonatal lethality. Mutations in the human gene are associated with selective tooth agenesis-3. [provided by RefSeq, Sep 2015]</p>

Product images:



Circular map for RC200380



Western blot validation of overexpression lysate (Cat# [LY401866]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200380 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PAX9 protein (Cat# [TP300380]). The protein was produced from HEK293T cells transfected with PAX9 cDNA clone (Cat# RC200380) using MegaTran 2.0 (Cat# [TT210002]).