

Product datasheet for RC224471

SOX21 (NM 007084) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: SOX21 (NM_007084) Human Tagged ORF Clone

Tag: Myc-DDK SOX21

SOX25 Synonyms:

Mammalian Cell Neomycin

Selection:

Symbol:

Vector: pCMV6-Entry (PS100001) E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >RC224471 representing NM_007084

Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGTCCAAGCCGGTGGACCACGTCAAGCGGCCCATGAACGCCTTCATGGTGTGGTCGCGGGCTCAGCGGC GCAAGATGGCCCAGGAGAACCCCAAGATGCACAACTCGGAGATCAGCAAGCGCTTGGGCGCCGAGTGGAA ACTGCTCACAGAGTCGGAGAAGCGGCCGTTCATCGACGAGGCCAAGCGTCTACGCGCCCATGCACATGAAG GAGCACCCCGACTACAAGTACCGGCCGCGGCGCAAGCCCAAGACGCTGCTCAAGAAGGACAAGTTCGCCT GCACGCGGGGCGGCGGCCTGGTGCCTGAGTCGCTGCTCGCCAATCCCGAGAAGGCGGCCGCGCC CCGCCGCGGGCAGCCCCTACTCGCTGCTCGACCTGGGCTCCAAAATGGCAGAGATCTCGTCGTCCTCGTC GCGGCTGCAGCGGCGGCCGCCGCCGGGGGGCACACGCACTCGCACCCCAGCCCGGGCAACCCGGGCT ACATGATCCCGTGCAACTGCAGCGCGTGGCCCAGCCCCGGGCTGCAGCCGCCGCCTCGCCTACATCCTGCT

GCCGGGCATGGGCAAGCCCCAGCTGGACCCCTACCCCGCGGCCTACGCTGCCGCGCTA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGATCTGGCAGCAAATGATATCC TGGATTACAAGGATGACGACGATAAGGTTTAA



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Protein Sequence: >RC224471 representing NM_007084

Red=Cloning site Green=Tags(s)

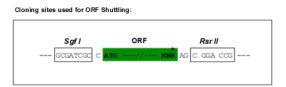
MSKPVDHVKRPMNAFMVWSRAQRRKMAQENPKMHNSEISKRLGAEWKLLTESEKRPFIDEAKRLRAMHMK EHPDYKYRPRRKPKTLLKKDKFAFPVPYGLGGVADAEHPALKAGAGLHAGAGGGLVPESLLANPEKAAAA AAAAAARVFFPQSAAAAAAAAAAAAAAAGSPYSLLDLGSKMAEISSSSSGLPYASSLGYPTAGAGAFHGAAA AAAAAAAAAGGHTHSHPSPGNPGYMIPCNCSAWPSPGLQPPLAYILLPGMGKPQLDPYPAAYAAAL

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDK**V**

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:



			EcoR		BamHI Kpn I			RBS			Consensus Sgf I								
CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGC C ATG																			
ORF				RsrII		Mlu I		Not		.,		tho I				c.Tag			
1	MMM	AGC S	GGA G	CCG	ACG T	CGT	' ACG	CGG	CCC	CTC	GAG E	CAG	AAA K	CTC	ATC	TCA	GAA E	GAG E	
											_				_				
	EcoR V									Flag.Tag								Fse I	
	GCA	GCA	AAT	GAT	ATC	CTG	GAT	TAC		GAT				AAG	GTT	TAA	ACGG	COGGC	
D L	A	A	N	D	I	L	_D_	Y	K	D	D	D	D	K	v	Stop			

^{*} The last codon before the Stop codon of the ORF

ACCN: NM_007084

ORF Size: 828 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 customercom 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:

- 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 007084.4</u>

 RefSeq Size:
 2537 bp

 RefSeq ORF:
 831 bp

 Locus ID:
 11166

 UniProt ID:
 Q9Y651

 Cytogenetics:
 13q32.1

 MW:
 28.4 kDa

Gene Summary: SRY-related HMG-box (SOX) genes encode a family of DNA-binding proteins containing a 79-

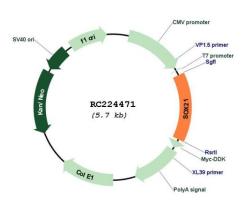
amino acid HMG (high mobility group) domain that shares at least 50% sequence identity with the DNA-binding HMG box of the SRY protein (MIM 480000). SOX proteins are divided into 6 subgroups based on sequence similarity within and outside of the HMG domain. For

additional background information on SOX genes, see SOX1 (MIM 602148).[supplied by OMIM,

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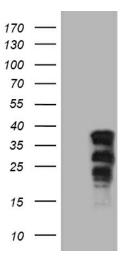
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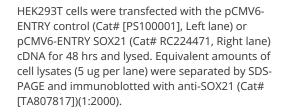
Product images:

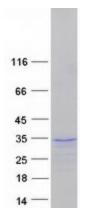


Circular map for RC224471









Coomassie blue staining of purified SOX21 protein (Cat# [TP324471]). The protein was produced from HEK293T cells transfected with SOX21 cDNA clone (Cat# RC224471) using MegaTran 2.0 (Cat# [TT210002]).