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Product datasheet for RC232371

STEAP4 (NM_001205316) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STEAP4 (NM_001205316) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STEAP4
Synonyms:	SchLAH; STAMP2; TIARP; TNFAIP9
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232371 representing NM_001205316 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGAAAACTTGTATAGATGCACTTCCTCTTACTATGAATTCTTCAGAAAAGCAAGAGACTGTATGTA TTTTTGGAACTGGTGATTTTGGAAGATCACTGGGATTGAAAATGCTCCAGTGTGGTTATTCTGTTGTTTT TGGAAGTCGAAACCCCCAGAAGACCACCCTACTGCCCAGTGGTGCAGAAGTCTTGAGCTATTCAGAAGCA GCCAAGAAGTCTGGCATCATAATCATAGCAATCCACAGAGAGCATTATGATTTTCTCACAGAATTAACTG AGGTTCTCAATGGAAAAATATTGGTAGACATCAGCAACAACCTCAAAATCAATCAATATCCAGAATCTAA TGCAGAGTACCTTGCTCATTTGGTGCCAGGAGCCCACGTGGTAAAAGCATTTAACACCATCTCAGCCTGG GCTCTCCAGTCAGGAGCACTGGATGCAAGTCGGCAGGCAATACTCAAGAAGGAGAATCCATTTAGCACCT CCTCAGCCTGGCTCAGTGATTCATATGTGGCTTTGGGAATACTTGGGTTTTTTCTGTTTGTACTCTTGGG AATCACTTCTTTGCCATCTGTTAGCAATGCAGTCAACTGGAGAGAGTTCCGATTTGTCCAGTCCAAACTG GGTTATTTGACCCTGATCTTGTGTACAGCCCACACCCTGGTGTACGGTGGGAAGAGATTCCTCAGCCCTT CAAATCTCAGATGGTATCTTCCTGCAGCCTACGTGTTAGGGCTTATCATTCCTTGCACTGTGCTGGTGAT CAAGTTTGTCCTAATCATGCCATGTGTAGACAACACCCTTACAAGGATCCGCCAGGGCTGGGAAAGGAAC TCAAAACAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC232371 representing NM_001205316
Red=Cloning site Green=Tags(s)

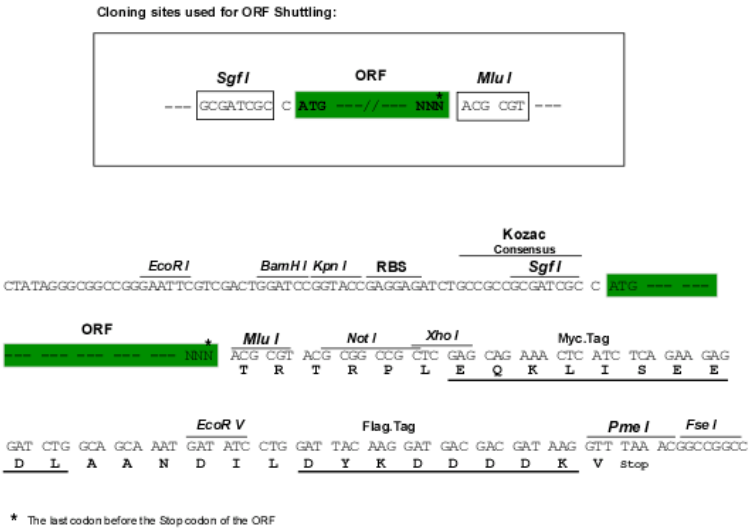
MEKTCIDALPLTMNSSEKQETVCIFGTGDFGRSLGLKMLQCGYSVVFGSRNPQKTTLLPSGAEVLSYSEA
AKKSGIIIIAIHREHYDFLTELTEVLNGKILVDISNNLKINQYPESNAEYLAHLVPGAHVVKAFNTISAW
ALQSGALDASRQAILKKENPFSTSSAWLSDSYVALGILGFFLFVLLGITSLPSVSNAVNWREFRFVQSKL
GYLTLILCTAHTLVYGGKRFLSPSNLRWYLPAAYVLGLIIPCTVLVIKFVLIMPCVDNTLTRIRQGWERN
SKH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

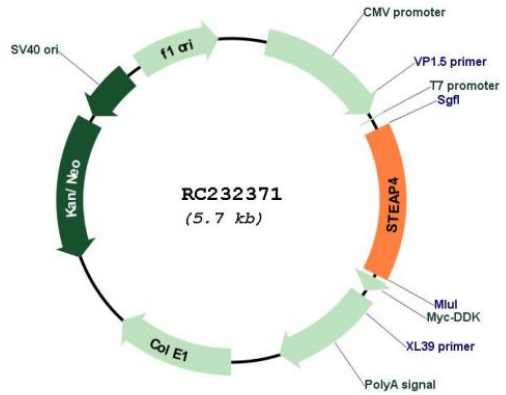
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001205316

ORF Size: 849 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.
RefSeq:	NM_001205316.2
RefSeq Size:	3960 bp
RefSeq ORF:	852 bp
Locus ID:	79689
UniProt ID:	Q687X5
Cytogenetics:	7q21.12
Protein Families:	Druggable Genome, Transmembrane
MW:	31.8 kDa
Gene Summary:	The protein encoded by this gene belongs to the STEAP (six transmembrane epithelial antigen of prostate) family, and resides in the golgi apparatus. It functions as a metalloreductase that has the ability to reduce both Fe(3+) to Fe(2+) and Cu(2+) to Cu(1+), using NAD(+) as acceptor. Studies in mice and human suggest that this gene maybe involved in adipocyte development and metabolism, and may contribute to the normal biology of the prostate cell, as well as prostate cancer progression. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2011]