

Product datasheet for **RG216917**

STEAP4 (NM_024636) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STEAP4 (NM_024636) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STEAP4
Synonyms:	SchLAH; STAMP2; TIARP; TNFAIP9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216917 representing NM_024636
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAAAACCTGTATAGATGCACTTCCTCTTACTATGAATTCCTCAGAAAAGCAAGAGACTGTATGTA
 TTTTGGAACTGGTGATTTTGGAAAGATCACTGGGATTGAAAATGCTCCAGTGTGGTTATTCTGTTGTTTT
 TGGAAAGTCGAAACCCCGAGAAGACCACCCTACTGCCAGTGGTGCAGAAGCTTGAGCTATTCAGAAGCA
 GCCAAGAAGTCTGGCATCATAATCATAGCAATCCACAGAGACATTATGATTTTCTCACAGAATTAAGT
 AGGTTCTCAATGGAAAAATATTGGTAGACATCAGCAACAACCTCAAAATCAATCAATATCCAGAATCTAA
 TGCAGAGTACCTTGCTCATTGGTGCCAGGAGCCACGTGGTAAAAGCATTTAACACCATCTCAGCCTGG
 GCTCTCCAGTCAGGAGCACTGGATGCAAGTCGGCAGGTGTTGTGTGGAAATGACAGCAAAGCCAAGC
 AAAGAGTGATGGATATTGTCGAATCTTGGACTTACTCCAATGGATCAAGGACTACTCATGGCAGCCAA
 AGAAATTGAAAAGTACCCCTGCAGCTATTTCCAATGTGGAGTTCCTCTTCTATTGTCTGCTGTGCTG
 TGTGCTTCTTGTGTTTTCTATTGTGTTATAAGAGACGTAATCTACCCTTATGTTTATGAAAAGAAAAGATA
 ATACATTCGATGGCTATTTCCATTCCAAATCGTATCTTTCCAATAACAGCACTTACACTGCTTGCTTT
 GGTTTACCTCCCTGGTGTATTGCTGCCATTCTACAACGTACCGAGGCACAAAATACCGTCGATCCCA
 GACTGGCTTGACCACTGGATGCTTTGCCGAAAGCAGCTTGGCTTGGTAGCTCTGGGATTTGCCTTCTTC
 ATGTCCTCTACACACTTGTGATTCTATTCGATATTATGTACGATGGAGATTGGGAAACTTAACCGTTAC
 CCAGGCAATACTCAAGAAGGAGAATCCATTTAGCACCTCCTCAGCCTGGCTCAGTGATTCATATGTGGCT
 TTGGGAATACTTGGGTTTTTCTGTTTGTACTTTGGGAATCACTCTTTGCCATCTGTTAGCAATGCAG
 TCAACTGGAGAGAGTCCGATTTGTCCAGTCCAACTGGGTTATTTGACCCTGATCTTGTGTACAGCCCA
 CACCCTGGTGTACGGTGGGAAGAGATTCCTCAGCCCTTCAAATCTCAGATGGTATCTTCTCAGCCTAC
 GTGTTAGGCTTATCATTCTTGCAGTGTGCTGGTATCAAGTTTGCCTAATCATGCCATGTGTAGACA
 ACACCCTTACAAGGATCCGCCAGGGCTGGGAAAGGAACTCAAACAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG216917 representing NM_024636
 Red=Cloning site Green=Tags(s)

MEKTCIDALPLTMNSSEKQETVCIFGTGDFGRSLGLKMLQCGYSVVFGSRNPQKTTLLPSGAEVLSYSEA
 AKKSGIIIIAIIHREHYDFLTELTEVLNGKILVDISNNLKINQYSPESNAEYLAHLVPGAHVVKAFNTISAW
 ALQSGALDASRQVFVCGNDSKAKQRVMDIVRNGLTPMDQGSMAAKEIEKYPLQLFPMWRFPFYLSAVL
 CVFLFFYCVIRDVIYPYVYEKKDNTFRMAISIPNRIFPITALLLALVYLPGVIAAILQLYRGTKYRRFP
 DWLDHWMLCRKQLGLVALGFALHVLVTLVIPIRYVVRWRLGNLTVTQAILKKENPFSTSSAWLSDSYVA
 LGILGFFLVLLGITSLPSVSNVNWREFRFVQSKLGYLTLILCTAHTLVYGGKRFLSPSNLRWYLPAA
 VLGLIIPCTVLVIKFLVIMPCVDNLTTRIRQGWERNKSH

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_024636

ORF Size: 1377 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_024636.4](#)

RefSeq Size: 4454 bp

RefSeq ORF: 1380 bp

Locus ID: 79689

UniProt ID: [Q687X5](#)

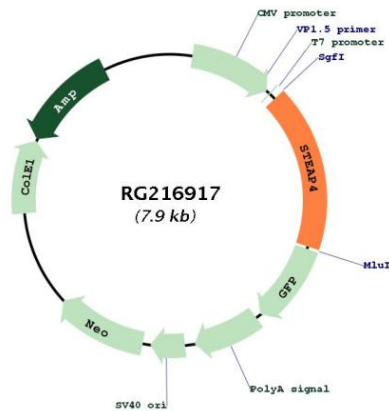
Cytogenetics: 7q21.12

Domains: F420_oxidored

Protein Families: Druggable Genome, Transmembrane

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]

Product images:



Circular map for RG216917