

Product datasheet for **RG232783**

STEAP4 (NM_001205315) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STEAP4 (NM_001205315) 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:

>RG232783 representing NM_001205315
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGAAAACCTGTATAGATGCACTTCCTCTTACTATGAATTCTTCAGAAAAGCAAGAGACTGTATGTA
 TTTTGGAACTGGTGATTTTGGAAAGACTACTGGGATTGAAAATGCTCCAGTGTGGTTATTCTGTTGTTTT
 TGGAAGTCGAAACCCCGAGAAGACCACCCTACTGCCAGTGGTGCAGAAGCTTGAGCTATTCAGAAGCA
 GCCAAGAAGTCTGGCATCATAATCATAGCAATCCACAGAGACATTATGATTTTCTCACAGAATTAAGT
 AGGTTCTCAATGGAAAAATATTGGTAGACATCAGCAACAACCTCAAAATCAATCAATATCCAGAATCTAA
 TGCAGAGTACCTTGCTCATTGGTGCCAGGAGCCACGTGGTAAAAGCATTTAACACCATCTCAGCCTGG
 GCTCTCCAGTCAGGAGCACTGGATGCAAGTCGGCAGGTGTTGTGTGGAAATGACAGCAAAGCCAAGC
 AAAGAGTGATGGATATTGTCGAATCTTGGACTACTCCAATGGATCAAGGACTACTCATGGCAGCCAA
 AGAAATTGAAAAGTACCCCTGCAGCTATTTCCAATGTGGAGTCCCTTCTATTTGTCTGCTGTGCTG
 TGTGCTCTTGTGTTTTCTATTGTGTTATAAGAGACGTAATCTACCCTTATGTTTATGAAAAGAAAAGATA
 ATACATTCGATGGCTATTTCCATTCCAAATCGTATCTTTCCAATAACAGCACTTACACTGCTTGCTTT
 GGTTTACCTCCCTGGTGTATTGCTGCCATTCTACAACGTACCGAGGCACAAAATACCGTCGATCCCA
 GACTGGCTTGACCACTGGATGCTTTGCCGAAAGCAGCTTGGCTTGGTAGCTCTGGGATTTGCCTTCTTC
 ATGTCCTCTACACACTTGTGATTCTATTCGATATTATGTACGATGGAGATTGGGAACTTAACCGTTAC
 CCAGGCAATACTCAAGAAGGAGAATCCATTTAGCACCTCTCAGCCTGGCTCAGTGATTCATATGTGGCT
 TTGGGAATACTTGGGTTTTTCTGTTTGTACTCTTGGGAATCACTCTTTGCCATCTGTTAGCAATGCAG
 TCAACTGGAGAGAGTCCGATTTGTCCAGTCCAACTGGGTTATTTGACCCTGATCTTGTGTACAGCCCA
 CACCCTGGTGTACGGTGGGAAGAGATTCCTCAGCCCTTCAAATCTCAGATGGTATCTTCTCAGCCTAC
 GTGTTAGGCTTATCATTCTTGCAGTGTGCTGGTGTATCAAGTTTGCCTAATCATGCCATGTGTAGACA
 ACACCCTTACAAGGATCCGCCAGGGCTGGGAAAGGAACTCAAACAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG232783 representing NM_001205315
 Red=Cloning site Green=Tags(s)

MEKTCIDALPLTMNSSEKQETVCIFGTGDFGRSLGLKMLQCGYSVVFGRNPQKTTLLPSGAEVLSYSEA
 AKKSGIIIIAIIHREHYDFLTELTEVLNGKILVDISNNLKINQYSPESNAEYLAHLVPGAHVVKAFNTISAW
 ALQSGALDASRQVFVCGNDSKAKQRVMDIVRNGLTPMDQGSMAAKEIEKYPLQLFPMWRFPFYL SAVL
 CVFLFFYCVIRDVIYPYVYEKDNTRFMAISIPNRIFPITALLLALVYLPGVIAAILQLYRGTKYRRFP
 DWLDHWMLCRKQLGLVALGFALHVLVTLVIPIRYVVRWRLGNLTVTQAILKKENPFSTSSAWLSDSYVA
 LGILGFFLVLLGITSLPSVSNVNWREFRFVQSKLGYLTLILCTAHTLVYGGKRFLSPSNLRWYLPAA
 YLGLIIPCTVLVIKFLVIMPVDNLTTRIRQGWERNRSKH

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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.
RefSeq:	NM_001205315.2
RefSeq Size:	4587 bp
RefSeq ORF:	1380 bp
Locus ID:	79689
UniProt ID:	Q687X5
Cytogenetics:	7q21.12
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]