

Product datasheet for **SC319230**

GPSN2 (TECR) (NM_138501) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: GPSN2 (TECR) (NM_138501) Human Untagged Clone
Tag: Tag Free
Symbol: GPSN2
Synonyms: GPSN2; MRT14; SC2; TER
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC (PS100020)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_138501.4
 GCGCTGTAGGGAGCCTGTGCTGTGCCGCGCAGTTAGGCAGCAGCAGCCGGGAGCAGTAG
 CCGCCGTGGGAGGGAGCCATGAAGCATTACGAGGTGGAGATTCTGGACGCAAAGACAAGG
 GAGAAGCTGTGTTTCTTGACAAGGTGGAGCCCCACGCCACCATTGCGGAGATCAAGAAC
 CTCTTCACTAAGACCCATCCGCGAGTGGTACCCCGCCCGCCAGTCCCTCCGCCTGGACCCC
 AAGGGCAAGTCCCTGAAGGATGAGGATGTTCTGCAGAAGCTGCCCGTGGGACCACGGCC
 ACACTGTACTTCCGGACCTGGGGGCCAGATCAGCTGGGTGACGGTCTTCTAACAGAG
 TACGCGGGGCCCTTTTCATCTACCTGCTTCTACTTCCGAGTGCCTTCATCTATGGC
 CACAAATATGACTTTACGTCCAGTCGGCATAACAGTGGTGCACCTCGCCTGCATCTGTAC
 TCATTCCACTACATCAAGCGCCTGCTGGAGACGCTCTTCGTGCACCGCTTCTCCCATGGC
 ACTATGCCTTTGCGCAACATCTTCAAGAACTGCACCTACTACTGGGGCTTCGCCGCGTGG
 ATGGCCTATTACATCAATCACCCCTCTTACACTCCCCCTACCTACGGAGCTCAGCAGGTG
 AAAGTGGCGCTCGCCATCTTTGTGATCTGCCAGCTCGGCAACTTCTCCATCCACATGGCC
 CTGCGGGACCTGCGGCCCGCTGGGTCCAAGACGCGGAAGATCCCATACCCACCAAGAAC
 CCCTTCACGTGGCTTCTCTGCTGGTGTCTGCCCAACTACACCTACGAGGTGGGGTCC
 TGGATCGGTTTCGCCATCATGACGCGAGTGTCTCCAGTGGCCCTGTTCTCCCTGGTGGGC
 TTCACCCAGATGACCATCTGGGCCAAGGGCAAGCACCGCAGCTACCTGAAGGAGTCCGG
 GACTACCCGCCCTGCGCATGCCATCATCCCCCTCTGCTCTGAGCGCTCACCCCTGCT
 GAGGCTCAGCCCCTCAACCCGGTGGCATTCTGGGGGAGGAGTGGGGCCCCACAGCTCTCCA
 GCACCCGGAATAAAGCCCGCTGCCAGTCGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_138501



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_138501.4 , NP_612510.1
RefSeq Size:	1197 bp
RefSeq ORF:	927 bp
Locus ID:	9524
UniProt ID:	Q9NZ01
Cytogenetics:	19p13.12
Domains:	Steroid_dh
Protein Families:	Transmembrane
Protein Pathways:	Biosynthesis of unsaturated fatty acids
Gene Summary:	<p>This gene encodes a multi-pass membrane protein that resides in the endoplasmic reticulum, and belongs to the steroid 5-alpha reductase family. The elongation of microsomal long and very long chain fatty acid consists of 4 sequential reactions. This protein catalyzes the final step, reducing trans-2,3-enoyl-CoA to saturated acyl-CoA. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Apr 2011]</p> <p>Transcript Variant: This variant (1) encodes isoform 1.</p>