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Product datasheet for SC109278

GPS2 (NM_004489) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPS2 (NM_004489) Human Untagged Clone
Tag:	Tag Free
Symbol:	GPS2
Synonyms:	AMF-1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC109278 sequence for NM_004489 edited (data generated by NextGen Sequencing)

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ATGCCCGCACTCCTGGAGCGCCCCAAGCTTTCCAACGCCATGGCCAGGGCGCTGCACCGG
CACATTATGATGGAGCGGGAGCGCAAGCGGCAGGAGGAAGAAGAGGTGGATAAGATGATG
GAACAGAAGATGAAGGAAGAACAGGAGAGAAGGAAGAAAAAGGAGATGGAAGAGAGAATG
TCATTAGAGGAGACCAAGGAACAAATTCTGAAGTTGGAGGAGAAGCTTTTGGCTCTACAG
GAAGAGAAGCACCAGCTTTTCCTGCAGCTCAAGAAAGTTTTACATGAGGAAGAAAAACGG
AGGCGAAAGGAACAGAGTGACCTGACCACCCTGACATCAGCTGCATACCAGCAGAGCCTG
ACTGTTCACACAGGAACTCATCTCCTCAGCATGCAGGGGAGCCCTGGAGGACACAATCGC
CCAGGCACCCTCATGGCAGCTGACAGAGCCAAACAAATGTTTGGACCCCAAGTGCTTACG
ACCCGGCACTACGTGGGCTCAGCAGCTGCTTTTGCAGGGACACCAGAGCATGGACAATTC
CAAGGCAGTCCTGGTGGTGCCTATGGGACTGCTCAGCCCCCACCTCACTATGGGCCCACA
CAGCCAGCTTATAGTCCTAGTCAGCAGCTCAGAGCTCCTTCGGCATTCCCTGCAGTGCAG
TACCTATCTCAGCCACAGCCACAGCCCTATGCTGTGCATGGCCACTTTCAGCCCACTCAG
ACAGGTTTCCTCCAGCCTGGTGGTGCCCTGTCCTTGCAAAAGCAGATGGAACATGCTAAC
CAGCAGACTGGCTTCTCCGACTCATCCTCTCTGCGCCCCATGCACCCCCAGGCTCTGCAT
CCAGCCCCTGGACTCCTTGCTTCCCCCCAGCTCCCTGTGCAGATGCAGCCAGCAGGAAAG
TCGGGCTTTGCAGCTACCAGCCAACCTGGCCCTCGGCTCCCCTTCATCCAACACAGCCAG
AACCCGCGATTCTACCACAAGTGA

Clone variation with respect to NM_004489.4
333 a=>g
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View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004489 unedited
NGGGTCGAATTTGTATACGACTCATATNAGGCGGCCGCGCGTCGGNACCGCTGAGAAGCG
CANAGAAGCGGGCCCCGTCTGAGGTCTGGCAGTCAGAGACAGCCGGGCGCCCACGGCCCG
AGCGCCCACGGCAGCACCATGCCCGCACTCCTGGAGCGCCCCAAGCTTTCCAACGCCATG
GCCAGGGCGCTGCACCGGCACATTATGATGGAGCGGGAGCGCAAGCGGCAGGAGGAAGAA
GAGGTGGATAAGATGATGGAACAGAAGATGAAGGAAGAACAGGAGAGAAGGAAGAAAAAG
GAGATGGAAGAGAGAATGTCATTAGAGGAGACCAAGGAACAAATTCTGAAGTTGGAGGAG
AAGCTTTTGGCTCTACAGGAAGAGAAGCACCAGCTTTTCCTGCAGCTCAAGAAAGTTTTA
CATGAGGAAGAAAAACGGAGGCGAAAGGAACAGAGTGACCTGACCACCCTGACATCAGCT
GCATACCAGCAGAGCCTGACTGTTCACACAGGAACTCATCTCCTCAGCATGCAGGGGAGC
CCTGGAGGACACAATCGCCCAGGCACCCTCATGGCAGCTGACAGAGCCAAACAAATGTTT
GGACCCCAAGTGCTTACGACCCGGCACTACGTGGGCTCAGCAGCTGCTTTTGCAGGGACA
CCAGAGCATGGACAATTCCAAGGCAGTCCTGGTGGTGCCTATGGGACTGCTCAGCCCCAC
CTCACTATGGGCCCACACAGNNCAGCTATAGTCCTAGTCAGCAGCTCAGAGCTCCTTCGG
CATTCCCTGCAGTGCAGTACCTATCTCAGCCACACCACAGCCCTATGCTGTGCATGGGCA
CTTTCAGCCACTCAAACAGGNTTNCTCCAGNCTGGTGGGGCCCTGTCCCTGCAAAAGCAG
ATGGN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004489 unedited
TCGGGGTTGCTATTTCATTGGCTCTGGGNACACACAGGGGNATACCCTCACCCACGAGGG
GTGGGGGGTGTGGTGTTGAAGATATAATCTGATGGTCACTTGTGGTAGAATCGCGGGTTC
TGGCTGTGTTGGATGAAGGGGAGCCGAGGGCCAGGTTGGCTGGTAGCTGCAAAGCCCGAC
TTTCCTGCTGGCTGCATCTGCACAGGGAGCTGGGGGGAAGCAAGGAGTCCAGGGGCTGGA
TGCAGAGCCTGGGGGTGCATGGGGCGCAGAGAGGATGAGTCGGAGAAGCCAGTCTGCTGG
TTAGCATGTTCCATCTGCTTTTGCAAGGACAGGGCACCACCAGGCTGGAGGAAACCTGTC
TGAGTGGGCTGAAAGTGGCCATGCACAGCATAGGGCTGTGGCTGTGGCTGAGATAGGTAC
TGCACTGCAGGGAATGCCGAAGGAGCTCTGAGCTGCTGACTAGGACTATAAGCTGGCTGT
GTGGGCCCATAGTGAGGTGGGGGCTGAGCAGTCCCATAGGCACCACCAGGACTGCCTTGG
AATTGTCCATGCTCTGGTGTCCCTGCAAAAGCAGCTGCTGAGCCCACGTAGTGCCGGGTC
GTAAGCACTTGGGGTCCAAACATTTGTTTGGCTCTGTCAGCTGCCATGAGGGTGCCTGGG
CGATTGTGTCCTCCAGGGCTCCCCTGCATGCTGAGGAGATGAGTTCCTGTGTGAACAGTC
AGGCTCTGCTGGTATGCAGCTGATGTCAGGGTGGTCANGTCACTCTGTTCCTTTCGCCTT
CGTTTTTCCTCCTCATGTAAAACTTTCTTGAGCTGCAGGAAAAACTGGTGCTTCTCTTCC
TGTAAAGCCAAAAGCTNCTCTCCACCTCCAGAAATTGTCCCTGGTCTCCTCTATGACATT
CTCTTCTCCATCCCCCTTTNTTNCCTCCTCTCCGGGNCTTCCTNCATACTTTGTNCCATC
ATCTTATCCACCTTTNCTTCCTCCTGCCGGTTGCGCTCG

Restriction Sites: NotI-NotI

ACCN: NM_004489

Insert Size: 1300 bp

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).

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_004489.4, NP_004480.1
RefSeq Size:	1181 bp
RefSeq ORF:	984 bp
Locus ID:	2874
UniProt ID:	Q13227
Cytogenetics:	17p13.1
Domains:	NEUZ
Protein Families:	Druggable Genome
Gene Summary:	This gene encodes a protein involved in G protein-mitogen-activated protein kinase (MAPK) signaling cascades. When overexpressed in mammalian cells, this gene could potently suppress a RAS- and MAPK-mediated signal and interfere with JNK activity, suggesting that the function of this gene may be signal repression. The encoded protein is an integral subunit of the NCOR1-HDAC3 (nuclear receptor corepressor 1-histone deacetylase 3) complex, and it was shown that the complex inhibits JNK activation through this subunit and thus could potentially provide an alternative mechanism for hormone-mediated antagonism of AP1 (activator protein 1) function. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (2) shares several exons with variant 1 and encodes G protein pathway suppressor 2, a distinct downstream protein. Variants 2 and 3 differ in their 5' UTR and specify the same protein.