

Product datasheet for **SC302238**

Gephyrin (GPHN) (NM_001024218) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gephyrin (GPHN) (NM_001024218) Human Untagged Clone
Tag:	Tag Free
Symbol:	Gephyrin
Synonyms:	GEPH; GPH; GPHRYN; HKPX1; MOCODC
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001024218, the custom clone sequence may differ by one or more nucleotides

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ATGGCGACCGAGGGAATGATCCTTACTAACCACGACCATCAAATCCGTGTCGGAGTCCTT
ACAGTGAGTGATAGTTGCTTCAGGAATCTTGCAGAAGACCGCAGTGGGATAAATCTCAA
GATCTCGTACAAGATCCTTCTTTGTTGGGTGGGACTATATCAGCATACAAGATAGTACCA
GATGAAATAGAAGAAATCAAGGAAACCCGTAGATAGATTGGTGTGATGAAAAGGAACCTAAT
TTGATATTAACAACCTGGAGGAACAGGATTTGCACCACGAGATGTCACTCCAGAGGCCACA
AAAGAAGTAATAGAACGGGAAGCACCAGGGATGGCCCTGGCAATGCTGATGGGATCACTT
AATGTTACACCTCTGGGCATGCTCTCTAGGCCTGTATGTGGAATCAGAGGAAAAACGCTC
ATAATTAACCTGCCAGGTAGCAAGAAAGGATCTCAGGAATGCTTTCAATTCATACTGCCA
GCTCTACCTCATGCCATTGACCTTTTACGTGATGCCATTGTAAGTAAAGGAGGTGCAT
GATGAACCTGAAGATTTGCCTTCCCACCTCCCCTCTTCCCCTCCTCTACTACCAGC
CCCCATAAACAGACAGAAGACAAAGGAGTTCAATGTGAGGAAGAGGAAGAAGAGAAGAAA
GACAGTGGTGTTCCTTCAACAGAAGATAGTTCCCTCATCACATATAACTGCAGCAGCCATT
GCTGCCAAGATCCAGACTCCATCATTCTCGTGGTGTTCAGGTGCTCCCACGAGACACA
GCCTCCCTCAGCACTACTCCTTCAGAATCGCCTCGTGCTCAGGCTACATCTCGCCTCTCT
ACAGCTTCTGCCCAACACAAAAGTCCAGTCCAGGTGCAGCAGCAAGGAGAACATTCTC
AGAGCCAGTCACAGTGCTGTGATATACCAAGGTGGTGAAGACATCGCATGTCTCCT
TTTCTCTGACATCTATGGACAAAGCCTTTATCACAGTCTGGAGATGACTCCGGTGTCTT
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GCAAAAGACAATTTACCCCTTCCCAGCATCAGTAAAAGATGGCTATGCTGTCCGAGCT
GCTGATGGCCCAGGAGATCGTTTCATCATTGGGGAATCCCAAGCTGGTGAACAGCCAAC
CAGACGTAATGCCAGGACAAGTCATGCGGGTTACAACAGGTGCTCCAATACCCTGCGGT
GCTGATGCAGTAGTACAAGTGGAAAGATACCGAACTTATCAGGGAATCAGATGATGGCACT
GAAGAACTTGAAGTGCGAATTCTGGTGAAGCTCGGCCAGGCCAAGATATCAGACCCATC
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GAGATTGGTCTTCTGGCAACTGTAGGTGTACAGAGGTTGAAGTTAATAAGTTTCCAGTG
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AAGATTCGAGACAGCAATCGTTCAACTCTCTAGCAACAATTCAGGAACATGGTTACCCC
ACGATCAACTTGGGTATTGTAGGAGACAACCCAGATGACTTACTCAATGCCTTGAATGAG
GGTATCAGTCGTGCTGATGTCATCATCACATCAGGGGTGTATCCATGGGGGAAAAGGAC
TATCTCAAGCAGGTGCTGGACATTGATCTTCATGCTCAGATCCATTTTGGCAGGGTTTTT
ATGAAACCAGGCTTGCCAAACATTTGCAACTTTGGATATTGATGGTGTAAAGAAAAATA
ATCTTTGCACTACCTGGGAATCCTGTATCGGCTGTGGTCACTGCAATCTCTTTGTTGTG
CCTGCACTGAGGAAAAATGCAGGGCATCTTGGATCCTCGGCCAACCATCATCAAAGCAAGG
TTATCATGTGATGTAACACTTGATCCTCGTCCAGAATACCATCGGTGTATACTAACTTGG
CATCACCAGAACCACACTACCTTGGGCACAGAGTACAGGTAATCAAATGAGCAGCCGTCTG
ATGAGCATGCGCAGTGCCAATGGATTGTTGATGCTACCTCAAAGACAGAACAGTACGTG
GAGCTCCACAAAGGCGAGGTGGTGGATGTCATGGTCATTGGACGGCTATGA

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Restriction Sites: Please inquire

ACCN: NM_001024218

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:	<u>NM_001024218.1</u> , <u>NP_001019389.1</u>
RefSeq Size:	4219 bp
RefSeq ORF:	2211 bp
Locus ID:	10243
UniProt ID:	<u>Q9NQX3</u>
Cytogenetics:	14q23.3-q24.1
Protein Families:	Druggable Genome
Gene Summary:	<p>This gene encodes a neuronal assembly protein that anchors inhibitory neurotransmitter receptors to the postsynaptic cytoskeleton via high affinity binding to a receptor subunit domain and tubulin dimers. In nonneuronal tissues, the encoded protein is also required for molybdenum cofactor biosynthesis. Mutations in this gene may be associated with the neurological condition hyperplexia and also lead to molybdenum cofactor deficiency. Numerous alternatively spliced transcript variants encoding different isoforms have been described; however, the full-length nature of all transcript variants is not currently known. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2), also known as Geph2, lacks an alternate, in-frame exon, compared to variant 1. It encodes isoform 2, which is shorter than isoform 1.</p>