

Product datasheet for **SC114803**

TECPR2 (NM_014844) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TECPR2 (NM_014844) Human Untagged Clone
Tag:	Tag Free
Symbol:	TECPR2
Synonyms:	KIAA0329; SPG49
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_014844, the custom clone sequence may differ by one or more nucleotides

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ATGGCATCGATATCAGAGCCTGTTACATTCAGAGAGTTCTGCCCGTTGTTACTATCTCCTCAATGCCATTC
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CCAACGGCTGACAAGACGTTACGCCACTCGCACGGCACCCAGAAGAGCAGCCAGGCCCATGCCCCAC
CCTGAGGACCTGGAGGACGAGTGGGAGGTGATCTGA

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_014844 unedited GGCGGCCCGCAATTCGCACGAGGGAGCCCCAGGTTTCCCTAGATGACAAATAACATT CCTTTTCTGCGTGAAGATAGTCTGTGGAAACCTTGGCCATGGCATCGATATCAGAGCCT GTTACATTAGAGAGTTCTGCCCGTTGTACTATCTCCTCAATGCCATCCGACAAAGATC CAGAAGGGTTTCCGCTCTATCGTGGTCTATCTCACGGCCCTCGACACCAACGGGGACTAC ATCGCGGTGGGCAGCAGCATCGGCATGCTCTATCTGTACTGCCGGCACCTCAACCAGATG AGGAAGTACAACCTTTGAGGGGAAGACGGAATCTACTGTGGTGAAGCTGCTGAGCTGC TTTGATGACCTGGTGGCAGCAGGCACAGCCTCTGGCAGGTTGCAGTTTTTCAACTTGTA TCTTCATTGCCAGGGAGAATAAACAGCTTCGGAGATTTGATGTCACTGGTATTACAAA AATAGCATTACAGCTCTGGCTTGGAGCCCAATGGAATGAAATTGTTCTCTGGAGATGAC AAAGGCAAAATTGTTTATTCTTCTCTGGATCTAGACCAGGGGCTCTGTAACCTCCAGCTG GTGTTGGAGGAGCCATCTCCATTGTGCAGCTGGATTATAGCCAGAAAGTCTGCTGGTC TCTACTCTGCAAAGAAGTCTGCTCTTTTACTGAAGAAAAGTCTGTAAGGCANATTTGG AACACAACCAAGGAAAAGTACTGGGAAAATTTGGTGCTTGTGTTTATACCAAGACTCCTGT AGCAAGTGATCTAACCTGTATGCGTCACGGCCCGGGCTTCGGCTATGGAGGCTGATGTCA CGGGACTGTTCAAGCCAGTTTATCTTAAAGATGCCTTTGCGGGGAAGTCAACCTTTTGAC TGCCCCGGTTCGGGATCCCCAAAATGAAGT
Restriction Sites:	NotI-NotI
ACCN:	NM_014844
Insert Size:	5000 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:	<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_014844.2 , NP_055659.1
RefSeq Size:	8703 bp
RefSeq ORF:	8703 bp
Locus ID:	9895
UniProt ID:	O15040
Cytogenetics:	14q32.31
Domains:	WD40, TECPR

Gene Summary:

The protein encoded by this gene is a member of the tectonin beta-propeller repeat-containing (TECPR) family, and contains both TECPR and tryptophan-aspartic acid repeat (WD repeat) domains. This gene has been implicated in autophagy, as reduced expression levels of this gene have been associated with impaired autophagy. Recessive mutations in this gene have been associated with a hereditary form of spastic paraparesis (HSP). HSP is characterized by progressive spasticity and paralysis of the legs. There is also some evidence linking mutations in this gene with birdshot chorioretinopathy (BSCR), which results in inflammation of the choroid and retina. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2015]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.