

## Product datasheet for **SC125497**

### Calcium binding protein P22 (CHP1) (NM\_007236) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Calcium binding protein P22 (CHP1) (NM_007236) Human Untagged Clone
Tag:	Tag Free
Symbol:	Calcium binding protein P22
Synonyms:	CHP; p22; p24; Sid470p; SLC9A1BP; SPAX9
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_007236 edited

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GGCGGCCCGCAATTCGCACGAGCCGCATGGAAACACTGCCCTCTCCCTTCTTGACCCCT
AGCCCTTCCCTCCCTCCCTCCCTCCCTCCTGTCGCGTCTCTTCTGGCGCCGCTGCTCCC
GGAGGAGCTCCCGCACGGCGATGGGTTCTCGGGCCTCCACGTTACTGCGGGACGAAGAG
CTCGAGGAGATCAAGAAGGAGACCGGCTTTTCCACAGTCAAATCACTCGCCTCTACAGC
CGGTTACCAGCCTGGACAAAGGAGAGAATGGACTCTCAGCCGGGAAGATTTCCAGAGG
ATTCCAGAACTTGCCATCAACCCACTGGGGACCGGATCATCAATGCCTTCTTTCCAGAG
GGAGAGGACCAGGTAACTTCCGTGGATTCATGCGAACTTTGGCTCATTTCGCCCCATT
GAGGATAATGAAAAGAGCAAAGATGTGAATGGACCCGAACCACTCAACAGCCGAAGCAAC
AACTGCACTTTGCTTTTCGACTATATGATTTGGATAAAGATGAAAAGATCTCCCGTGAT
GAGCTGTTACAGGTGCTACGCATGATGGTCGGAGTAAATATCTCAGATGAGCAGCTGGGC
AGCATCGCAGACAGGACCATTACAGGAGGCTGATCAGGATGGGGACAGTGCCATATCTTTC
ACAGAATTTGTTAAGTTTTGGAGAAGGTGGATGTAGAACAGAAAATGAGCATCCGATTT
CTTCACTAAAGGAGACCAAACCTGTTCTTGGCGTCTAGTATTTAAGAACTGGAACCTTGA
AGTCCCTCTTCTACCAACTCCACCTCCACCCCTCATTCCCTTCTCCCAAAGTACTACT
GCTGTTGCATGACAACCCCAAATATGTTCTGTCAACACAAACCTGCCTTTGGTGATAAA
CAGGGCATTACAGAATGGTACACCCTATATATTCTGTTTCAGTATCCATTCA

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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_007236 unedited GGCGTTCAGATTTTGTAAATACGACTTACTATAGGGCGGCCGGAATTCGCACGAGCCGCA TGGAAACTGCCCTCTCCCTTCTTGACCCCTAGCCCTTCTTCCCTCCCTCCTTCCCTC CTGTCCGCGTCTCTTCTGGCGCCGCTGCTCCCGGAGGAGCTCCCGGCACGGCGATGGGTT CTCGGGCTCCACGTTACTGCGGGACGAAGAGCTCGAGGAGATCAAGAAGGAGACCGGCT TTTCCCACAGTCAAATCACTCGCCTCTACAGCCGGTTCACCAGCCTGGACAAAGGAGAGA ATGGGACTCTCAGCCGGGAAGATTTCAGAGGATTCCAGAATTGCCATCAACCCACTGG GGGACCGGATCATCAATGCCTTCTTCCAGAGGGAGAGGACCAGGTAAACTTCCGTGGAT TCATGCGAACTTTGGCTCATTTCCGCCCATTTGAGGATAATGAAAAGAGCAAAGATGTGA ATGGACCCGAACCACTCAACAGCCGAAGCAACAACTGCCTTTGCTTTTCGACTATATG ATTTGGATAAAGATGAAAAGATCTCCCGTATGAGCTGTTACAGGTGCTACGCATGATGG TCGGAGTAAATATCTCAGATGAGCAGCTGGGCAGCATCGCAGACAGGACCATTCCANGANG CTGATCAGGATGGGGACAGTGCCATATCTTTCACAGAATTTGTTAAGGTTTTGGGAGAAG TGGATGTAGAACAGAAAATGAGCATCCGATTTCTTCACTAAAGGAGACCAAATGTTCCC TTGCGTCTAGTATTTAAGAACTGGACTTGAAAGTCCTNCTTTTACAACNNCACCTCAC CCCTCATTCCCCTTCTCCNAAGTACTACTGCTGTTGCATGACAACCCCAAATATGTCTGT CAACACAACCTGCTTTGGTGATAACAGGC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_007236
<b>Insert Size:</b>	3500 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_007236.3</a> , <a href="#">NP_009167.1</a>
<b>RefSeq Size:</b>	3248 bp
<b>RefSeq ORF:</b>	588 bp
<b>Locus ID:</b>	11261
<b>UniProt ID:</b>	<a href="#">Q99653</a>
<b>Cytogenetics:</b>	15q15.1
<b>Domains:</b>	EFh

**Protein Pathways:** Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Axon guidance, B cell receptor signaling pathway, Calcium signaling pathway, Long-term potentiation, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, Oocyte meiosis, T cell receptor signaling pathway, VEGF signaling pathway, Wnt signaling pathway

**Gene Summary:** This gene encodes a phosphoprotein that binds to the Na<sup>+</sup>/H<sup>+</sup> exchanger NHE1. This protein serves as an essential cofactor which supports the physiological activity of NHE family members and may play a role in the mitogenic regulation of NHE1. The protein shares similarity with calcineurin B and calmodulin and it is also known to be an endogenous inhibitor of calcineurin activity. [provided by RefSeq, Jul 2008]