

Product datasheet for RG201928

OriGene Technologies, Inc.

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Calcium binding protein P22 (CHP1) (NM 007236) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Calcium binding protein P22 (CHP1) (NM_007236) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: Calcium binding protein P22

Synonyms: CHP; p22; p24; Sid470p; SLC9A1BP; SPAX9

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG201928 representing NM_007236

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGGTTCTCGGGCCTCCACGTTACTGCGGGACGAAGAGCTCGAGGAGATCAAGAAGGAGACCGGCTTTT CCCACAGTCAAATCACTCGCCTCTACAGCCGGTTCACCAGCCTGGACAAAGGAGAAGAATGGGACTCTCAG CCGGGAAGATTTCCAGAGGATTCCAGAACTTGCCATCAACCCACTGGGGGACCGGATCATCAATGCCTTC TTTCCAGAGGGAGGACCAGGTAAACTTCCGTGGATTCATGCGAACTTTGGCTCATTTCCGCCCCCATTG AGGATAATGAAAAGAGCAAAGATGTGAATGGACCCGAACCACTCAACAGCCGAAGCAACAAACTGCACTT TGCTTTTCGACTATATGATTTGGATAAAGATGAAAAGATCTCCCGTGATGAGCTGTTACAGGTGCTACGC ATGATGGTCCGGAGTAAATATCTCAGATGAGCAGCTGGGCAGCATCGCAGACAGGACCATTCAGGAGGCTG ATCAGGATGGGGACAGTGCCATATCTTTCACAGAATTTTGTTAAGGTTTTGGAGAAGGTGGATGTAGAACA

GAAAATGAGCATCCGATTTCTTCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201928 representing NM_007236

Red=Cloning site Green=Tags(s)

MGSRASTLLRDEELEEIKKETGFSHSQITRLYSRFTSLDKGENGTLSREDFQRIPELAINPLGDRIINAF FPEGEDQVNFRGFMRTLAHFRPIEDNEKSKDVNGPEPLNSRSNKLHFAFRLYDLDKDEKISRDELLQVLR

 ${\tt MMVGVNISDEQLGSIADRTIQEADQDGDSAISFTEFVKVLEKVDVEQKMSIRFLH}$

TRTRPLE - GFP Tag - V

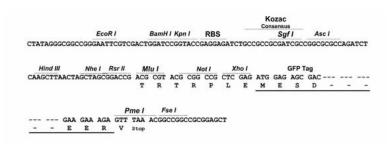
Restriction Sites: Sgfl-Mlul





Cloning Scheme:





ACCN: NM_007236

ORF Size: 585 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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 007236.5

 RefSeq Size:
 3248 bp

 RefSeq ORF:
 588 bp

 Locus ID:
 11261

 UniProt ID:
 Q99653

 Cytogenetics:
 15q15.1



Domains: 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

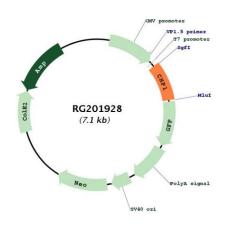
signaling pathway, VEGF signaling pathway, Wnt signaling pathway

Gene Summary: This gene encodes a phosphoprotein that binds to the Na+/H+ 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]

Product images:



Circular map for RG201928