

Product datasheet for RC201653

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OriGene Technologies, Inc.

EBP50 (SLC9A3R1) (NM_004252) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: EBP50 (SLC9A3R1) (NM_004252) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: EBP50

Synonyms: EBP50; NHERF; NHERF-1; NHERF1; NPHLOP2

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC201653 ORF sequence

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

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ACGGCTTCCACCTGCACGGGGAGAAGGGCAAGTTGGGCCAGTACATCCGGCTGGTGGAGCCCGGCTCGCC GGCCGAGAAGGCGGGGCTGCTGGCGGGGGACCGGCTGGTGGAGGTGAACGGCGAAAACGTGGAGAAGGAG ACCCACCAGCAGGTGGTGAGCCGCATCCGCGCCGCACTCAACGCCGTGCGCCCTGCTGGTGGTCGACCCCG AGACGGACGAGCAGCTGCAGAAGCTCGGCGTCCAGGTCCGAGAGGAGCTGCTGCGCGCCCCAGGAAGCGCC GGGGCAGGCCGAGCCGCCGCCGCCGAGGTGCAGGGGGCTGGCAACGAAAATGAGCCTCGCGAGGCC GACAAGAGCCACCCGGAGCAGCGCGAGCTTCGGCCTCGGCTCTGTACCATGAAGAAGGGCCCCAGTGGCT ATGGCTTCAACCTGCACAGCGACAAGTCCAAGCCAGGCCAGTTCATCCGGTCAGTGGACCCAGACTCCCC GGCTGAGGCTTCAGGGCTCCGGGCCCAGGATCGCATTGTGGAGGTGAACGGGGTCTGCATGGAGGGGAAG CAGCATGGGGACGTGGTGTCCGCCATCAGGGCTGGCGGGGACGAGACCAAGCTGCTGGTGGTGGACAGGG GCCCTTCACCAATGGGGAGATACAGAAGGAGACAGTCGTGAAGCCCTGGCAGAGGCAGCCTTGGAGAGC CCCAGGCCAGCCCTGGTGAGATCCGCCTCCAGTGACACCAGCGAGGAGCTGAATTCCCAAGACAGCCCCC CAAAACAGGACTCCACAGCGCCCTCGTCTACCTCCTCCTCCGACCCCATCCTAGACTTCAACATCTCCCT GGCCATGGCCAAAGAGAGGGCCCACCAGAAACGCAGCAAACGGGCCCCGCAGATGGACTGGAGCAAG AAAAACGAACTCTTCAGCAACCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA





Protein Sequence: >RC201653 protein sequence

Red=Cloning site Green=Tags(s)

MSADAAAGAPLPRLCCLEKGPNGYGFHLHGEKGKLGQYIRLVEPGSPAEKAGLLAGDRLVEVNGENVEKE THQQVVSRIRAALNAVRLLVVDPETDEQLQKLGVQVREELLRAQEAPGQAEPPAAAEVQGAGNENEPREA DKSHPEQRELRPRLCTMKKGPSGYGFNLHSDKSKPGQFIRSVDPDSPAEASGLRAQDRIVEVNGVCMEGK QHGDVVSAIRAGGDETKLLVVDRETDEFFKKCRVIPSQEHLNGPLPVPFTNGEIQKENSREALAEAALES PRPALVRSASSDTSEELNSQDSPPKQDSTAPSSTSSSDPILDFNISLAMAKERAHQKRSSKRAPQMDWSK KNELFSNL

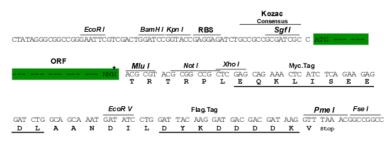
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6195 b03.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





 $[\]star$ The last codon before the Stop codon of the ORF

ACCN: NM_004252

ORF Size: 1074 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: <u>NM 004252.5</u>

 RefSeq Size:
 2032 bp

 RefSeq ORF:
 1077 bp

 Locus ID:
 9368

 UniProt ID:
 014745

 Cytogenetics:
 17q25.1

 Domains:
 PDZ

Protein Families: Druggable Genome

MW: 38.9 kDa

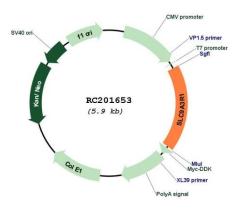
Gene Summary: This gene encodes a sodium/hydrogen exchanger regulatory cofactor. The protein interacts

with and regulates various proteins including the cystic fibrosis transmembrane conductance regulator and G-protein coupled receptors such as the beta2-adrenergic receptor and the parathyroid hormone 1 receptor. The protein also interacts with proteins that function as linkers between integral membrane and cytoskeletal proteins. The protein localizes to actinrich structures including membrane ruffles, microvilli, and filopodia. Mutations in this gene result in hypophosphatemic nephrolithiasis/osteoporosis type 2, and loss of heterozygosity

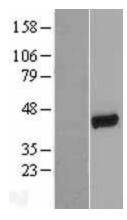
of this gene is implicated in breast cancer.[provided by RefSeq, Sep 2009]



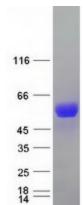
Product images:



Circular map for RC201653



Western blot validation of overexpression lysate (Cat# [LY401364]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201653 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SLC9A3R1 protein (Cat# [TP301653]). The protein was produced from HEK293T cells transfected with SLC9A3R1 cDNA clone (Cat# RC201653) using MegaTran 2.0 (Cat# [TT210002]).