

## Product datasheet for **SC112667**

### EBP50 (SLC9A3R1) (NM\_004252) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** EBP50 (SLC9A3R1) (NM\_004252) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** EBP50  
**Synonyms:** EBP50; NHERF; NHERF-1; NHERF1; NPHLOP2  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_004252 edited  
GGGCGGCCGGAATTCGCACGAGGGTCTGTGCTCCTCTCTCGGCTCCTCGCGGCTCGCGG  
CGGCCGACGGTTCCTGGACACCTGCTTGCTTGCCCGTCCGGCGGCTCAGGGCTTCTCT  
GCTGCGCTCCCGTTTCGCTGGACGGGAAGAAGGGCTGGGCGTCCCGTCCCGTCCCATC  
GGAACCCCAAGTCGCGCCGCTGACCCGTGCAGGGCGAGATGAGCGCGGACGCAGCGGCC  
GGGGCGCCCTGCCCGGCTCTGCTGCCTGGAGAAGGGTCCGAACGGCTACGGCTCCAC  
CTGCACGGGGAGAAGGGCAAGTTGGCCAGTACATCCGGCTGGTGGAGCCCGGCTCGCCG  
GCCGAGAAGGGGGGCTGCTGGCGGGGACCGGCTGGTGGAGGTGAACGGCGAAAACGTG  
GAGAAGGAGACCCACCAGCAGGTGGTGAAGCCGATCCGCGCCGCACTCAACGCCGTGCGC  
CTGCTGGTGGTGCACCCGAGACGGACGAGCAGCTGCAGAAGCTCGGCGTCCAGTCCGA  
GAGGAGCTGCTGCGCGCCAGGAAGCGCCGGGGCAGGCCGAGCCCGGCCCGCCGAG  
GTGAGGGGGCTGGCAACGAAAATGAGCCTCGCGAGGCCGACAAGAGCCACCCGGAGCAG  
CGCGAGCTTCGGCTCGGCTCTGTACCATGAAGAAGGGCCCAAGTGGCTATGGCTTCAAC  
CTGCACAGCGACAAGTCCAAGCCAGGCCAGTTCATCCGGTCAAGTGGACCCAGACTCCCCG  
GCTGAGGCTTCAGGGCTCCGGGCCAGGATCGCATTGTGGAGGTGAACGGGGTCTGCATG  
GAGGGGAAGCAGCATGGGGACGTGGTGTCCGCCATCAGGGCTGGCGGGGACGAGACCAAG  
CTGCTGGTGGTGGACAGGAACTGACGAGTTCCTCAAGAAATGCAGAGTGATCCCATCT  
CAGGAGCACCTGAATGGTCCCCTGCCTGTGCCCTTCAACATGGGGAGATACAGAAGGAG  
AACAGTCGTGAAGCCCTGGCAGAGGCAGCCTTGGAGAGCCCGCCAGCCCTGGTGGAG  
TCCGCCTCAGTGACACCAGCGAGGAGCTGAATTCCTCAAGACAGCCCGCCAAAACAGGAC  
TCCACAGCGCCCTCGTCTACCTCCTCCTCCGACCCCATCCTAGACTTCAACATCTCCCTG  
GCCATGGCCAAAGAGAGGGGCCACCAGAAAACGACGAGCAAAACGGGCCCGCAGATGGAC  
TGGAGCAAGAAAAACGAACCTCTCAGCAACCTCTGAGCGCCCTGCTGCCACCCAGTGACT  
GGCAGGGCCGAGCCAGCATTCCACCCACCTTTTCTTCTCCCAATTACTCCCTGAA  
TCAATGTACAAAACAGCACCCACATCCCCTTTCTTGACAAATGATTTTCTAGAGAACTA  
TGTTCTTCCCTGACTTTAGGGAAGGTGAATGTGTTCCCGTCTCCCGCAGTCAGAAAG



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_004252 unedited            GTTTCGGTTTTGTAATACGACTTACTATAGGGCGGCCGCAATTCGCACGAGGGTCTGT            GCTCCTCTCTCGGCTCCTCGCGGCTCGCGGCGGCCGACGGTTCCTGGGACACCTGCTTGC            TTGGCCCGTCCGGCGGCTCAGGGCTTCTCTGCTGCGCTCCCGTTTCGCTGGACGGGAAGA            AGGGCTGGGCCGTCCCCTCCCCTCCCATCGGAACCCCAAGTCGCGCCGCTGACCCGTCG            CAGGCGAGATGAGCGCGGACGACGCGGCGGGGCGCCCTGCCCGGCTCTGCTGCCTG            GAGAAGGGTCCGAACGGCTACGGCTTCCACCTGCACGGGAGAAGGGCAAGTTGGGCCAG            TACATCCGGCTGGTGGAGCCCGCTCGCCGCGGAGAAGGCGGGGCTGCTGGCGGGGAC            CGGCTGGTGGAGGTGAACGGCGAAAACGTGGAGAAGGAGACCCACCAGCAGGTGGTGAGC            CGCATCCGCGCCGCACTCAACGCCGTGCGCCTGCTGGTGGTGCACCCCGAGACGGACGAG            CAGCTGCAGAAGCTCGGCGTCCAGGTCCGAGAGGAGCTGCTGCGCGCCAGGAAGCGCCG            GGGCAGGCCGAGCCGCGGCCGCGCCCGAGTGCATGGGGCTGGCAACGATAATGAGCCT            TGCGAGGCCGACAAGAGCCACCCGGAGCAGCGGAGCTTCGGCCTCGGCTCTGTACCATG            AAAGAGGGCCCCATTGGCTATGGCTTCAACCTGCCAGCGACAGTTCAAGCCAGGCC            ATTCATCCCGTCCGTGGACCCCAAACCTCCCGGCTGGAGCTTTCAGGGCTCCGGGCCAGG            ATCGCTTGGGGAGGTGACCGCGTCTGCTGGGGGGAAGCCAGCTGGGGACTTGTGGTCC            GCCTTCAGGGCTGGCGGGACCAACCAACA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_004252 unedited            GCCGCAATTAGAGTCGAGNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGG            AGGAACCAACTGAATTTCTGAAAGTGTTTCCTTACAATGGGGGACCTGGCTTAAGGATG            GGCAGGGGTAACCAAACCTTCCCGTGTGCCAATTTGCTGAGGGGGGAGTAGGAACA            AAAGTTTAAAGGTGAGGCCACTGCCATGCCCTGGATGTAACAACCAGGAAAATCATGTTT            ATCAAGGAAACAAAAATTCCTTTAAACTCTGCAATACTGCACTTTTAACAAAAATCAAAT            GAAAACAAGACGTGTTTGCCACAGGTCTTAAGATAACAAATGCCCTGTCCACTGAAAACG            GGAGTTCTGTAGTCAAAGTTCTTTGATCAACCCTGGACCCATTTATTACATGGGGGACGA            ACGGATGGCGTTCCTTCCCTGCTCACCTATCTCCCTGTTTTCTCCCTTTTTCCGTCCC            TTCCTTGCTCCTCCCTTCTCCTTCTCTTCCCTCCTTCTTCTTCTTCTTCTTCTTCTTCT            CACTTTCCTCCTCCTCTCTCGATATTCTCTCCTTTTTCTCTCTTCCCTATCTCTTTTCT            CCCCCTCACCATTTCCTTTCTCCCTCTTCTCCCTTATTCTCCTGCATCCCCATTA            TTTCTCTTCTTCTCCCTTTTTCTTCCAGACTTATACCCCTTCACGTCAATTTCTAAT            TCATTCTTTTCTATATCCCTACTTTACCTTCTCACTATTTCTTTTCCCCCTTCT            TTACCCATTCTTATTCCCCCTTCTTTCTTCTTTCCCTTTTCTTCTTCTTCTTCTTCTTCC            TTCCTTATCCCCACCCCTTTTTCTACCCCTTCCCTTTGTCCCTCCCTTTCTTCTTCTTCTT            TTTTTCTTCTCATCTTCTTTTCCGATCCCATCCCCTCTCCTTCTTTTCTTCTCTCT            TCTTTTCTCCTCCCTTCCACTCTCCCCCTTCTTCCN</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004252
<b>Insert Size:</b>	2060 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).

**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\\_004252.1](#), [NP\\_004243.1](#)

**RefSeq Size:** 2000 bp

**RefSeq ORF:** 1077 bp

**Locus ID:** 9368

**UniProt ID:** [O14745](#)

**Cytogenetics:** 17q25.1

**Domains:** PDZ

**Protein Families:** Druggable Genome

**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 actin-rich 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]