

Product datasheet for **RG209592**

BARX1 (NM_021570) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BARX1 (NM_021570) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: BARX1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209592 representing NM_021570
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGCGGCCGGGGAGCCGGGCGCCGCGCTTCGGCCCGCCGAGGGCTGCGCGGACCACCGGCCGC
 ACCGCTATCGCAGCTTCATGATTGAGGAGATCCTCACGGAGCCACCCGGGCCAAGGGCGCCGCGCCGC
 AGCCGCGCTGCCGCGGGCGGAGCTGCTGAAGTTCGGCGTGCAGGCGCTGCTGGCGCGCGGCCCTTC
 CACAGCCACCTGGCCGTGCTGAAGGCCGAGCAGGCGCGGTGTCAAGTCCCACTGGCGCCGCTGGGT
 GTTCAGGGCTGAGCTCTGCGTTGCTGGCGGAGGCGCCGGGCTGCCCGGCCGCGGGTCCGCCACACT
 GCCGCTCGAGTTGCAGCTCCGCGGAAGCTGGAGGCGGCAGGCCCTGGGAGCCAGGCACCAAGCCAAG
 AAGGGCGTCCGAGCCGCACTGTGTTCCACGAGCTGCAGCTGATGGCCTGGAGAAACGCTTCGAGAAGC
 AGAAGTACCTTCCACGCCGACAGAATAGATCTTGTGAGTCCCTGGCCTGAGCCAGTTGCAGGTGAA
 GACGTGGTACCAGAATCGGAGGATGAAGTGAAGAAAAATAGTGTGCAGGGCGCGGCCCTGGAGTCTCC
 ACCAAGCCCAAGGGCGGCCAAGAAGAACTCAATTCCAACGAGCGAGCAGCTTACTGAGCAGGAGCGTG
 CCAAGGATGCAGAGAAACCGCGGAGGTGCCGGGCGAGCCAGCGACAGGAGCCGCGAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209592 representing NM_021570
Red=Cloning site Green=Tags(s)

MQRPGEPGAARFGPPEGCADHRPHRYRSFMIEEILTEPPGPKGAAPAAAAAAGELLKFGVQALLAARPF
 HSHLAVLKAEQAAVFKFPLAPLGCSSLALLAAGPPLPGAAGAPHLPLELQLRGKLEAAGPGEPTKAK
 KGRRSRTVFTLQMLGLEKRFKQKYLSTPDRIDLAESLGLSQLQVKTWYQNRMMKWKIIVLQGGLESP
 TKPKGRPKKNSIPTSEQLTEQERAKDAEKPAEVPGEPSDRSRED

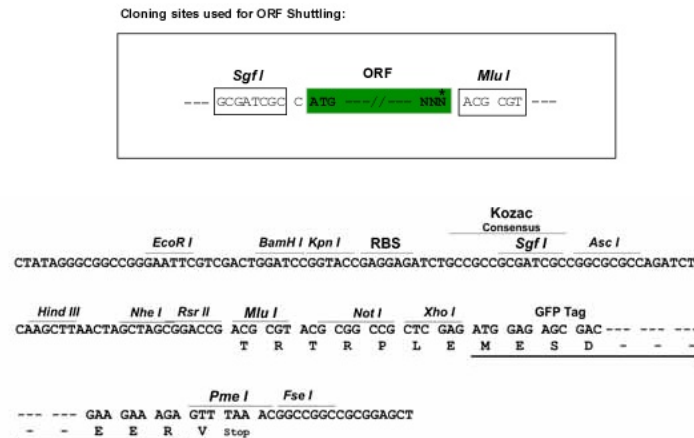
TRTRPLE - GFP Tag - V



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021570

ORF Size: 762 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_021570.3](#), [NP_067545.3](#)

RefSeq Size: 1498 bp

RefSeq ORF: 765 bp

Locus ID: 56033

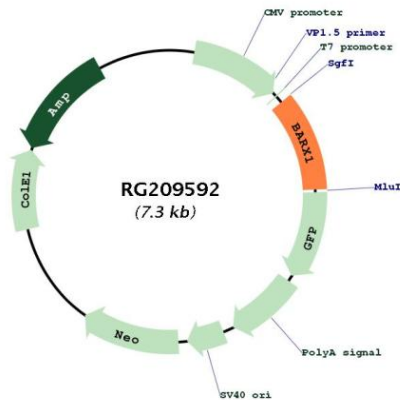
UniProt ID: [Q9HBU1](#)

Cytogenetics: 9q22.32

Protein Families: Transcription Factors

Gene Summary: This gene encodes a member of the Bar subclass of homeobox transcription factors. Studies of the mouse and chick homolog suggest the encoded protein may play a role in developing teeth and craniofacial mesenchyme of neural crest origin. The protein may also be associated with differentiation of stomach epithelia. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209592