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# Product datasheet for VC101177

## BALF2 (NC_007605) Virus Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | BALF2 (NC_007605) Virus Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | BALF2 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>The Viral ORF clone VC101177 represents NCBI reference of YP_401717 with codon optimized for human cell expression
Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAGGGCGCACAGACTAGTGAAGACAACCTTGGCTCCCAGTCACAGCCCGGACCATGCGGGTACATCT
ATTTTTACCCCCTGGCGACCTACCCTCTCAGGGAAGTCGCTACTTTGGGCACAGGCTATGCCGGCCACCG
GTGCCTGACTGTGCCCCTGCTTTGCGGAATTACCGTAGAGCCAGGTTTCAGTATCAACGTAAAGGCCTTG
CACAGACGCCCTGACCCGAATTGTGGCCTGCTGCGCGCCACCTCCTATCACCGAGATATATACGTCTTTC
ACAACGCGCACATGGTTCCACCAATATTCGAAGGACCTGGACTCGAAGCCCTGTGTGGGGAGACGAGAGA
GGTGTTTGGGTACGACGCATACAGTGCTCTCCCCCGAGAGAGTAGCAAACCCGGTGACTTCTTTCCGGAG
GGTCTGGATCCCAGTGCGTACCTGGGGGCCGTCGCCATCACCGAGGCTTTCAAAGAGCGGCTGTATAGCG
GTAATCTGGTCGCCATTCCCAGCCTCAAGCAGGAGGTCGCCGTTGGTCAGTCAGCCTCTGTGCGCGTCCC
ACTTTACGATAAGGAGGTCTTCCCCGAAGGGGTCCCTCAGCTTAGACAGTTTTATAACTCAGACTTGAGC
CGGTGCATGCACGAGGCCCTGTATACCGGCCTGGCACAGGCCCTCAGAGTACGCAGAGTTGGTAAATTGG
TGGAGCTGCTGGAAAAGCAGTCTCTGCAAGACCAGGCCAAGGTCGCCAAGGTGGCTCCCCTGAAGGAATT
TCCCGCATCAACAATCTCACATCCCGATAGCGGCGCCCTTATGATTGTAGATTCAGCAGCGTGCGAACTG
GCTGTTTCTTACGCCCCCGCCATGCTCGAGGCGAGCCACGAGACTCCCGCAAGCTTGAACTACGACTCCT
GGCCCTTGTTTGCCGACTGCGAAGGACCCGAAGCCAGAGTCGCTGCCCTGCACCGGTATAATGCCAGTCT
GGCCCCACACGTTTCTACGCAAATATTCGCCACCAACAGTGTCTTGTATGTGAGCGGAGTGAGCAAATCT
ACTGGCCAGGGCAAGGAGAGCTTGTTTAATAGCTTCTATATGACCCATGGACTCGGAACCCTCCAAGAGG
GTACTTGGGACCCCTGCCGGCGCCCATGCTTCAGCGGATGGGGTGGGCCAGATGTCACTGGAACGAACGG
CCCCGGCAACTACGCAGTGGAACACTTGGTGTACGCGGCCTCTTTTAGTCCGAACCTTCTCGCTCGATAT
GCTTATTACCTGCAGTTTTGTCAGGGCCAGAAGAGCAGCCTCACCCCCGTTCCTGAAACCGGATCTTACG
TTGCAGGGGCCGCAGCCAGCCCGATGTGTTCCCTTTGCGAAGGCCGCGCTCCAGCTGTCTGTCTGAATAC
ACTGTTCTTTCGACTGCGCGATCGATTCCCGCCCGTGATGTCTACCCAGAGACGGGACCCTTATGTGATT
AGCGGCGCCTCCGGCTCATATAATGAAACAGATTTCCTCGGCAACTTCTTGAACTTTATCGATAAGGAGG



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ACGACGGCCAGAGGCCGGATGACGAGCCCCGCTATACTTACTGGCAGCTGAACCAAAACCTCCTTGAGCG
CCTCAGTAGGCTTGGTATCGACGCTGAAGGCAAGCTCGAGAAGGAGCCACACGGTCCGAGAGACTTCGTG
AAGATGTTCAAGGACGTCGACGCCGCCGTCGATGCAGAGGTCGTGCAGTTCATGAACTCCATGGCTAAAA
ACAACATAACTTATAAAGACCTGGTTAAGTCTTGCTATCATGTCATGCAGTATAGCTGCAATCCATTTGC
CCAGCCCGCTTGCCCTATTTTCACACAGCTTTTTTATAGGTCCCTCCTCACAATTCTGCAGGATATCTCT
CTGCCGATATGCATGTGTTACGAGAACGATAACCCGGGCCTGGGACAAAGTCCGCCTGAGTGGCTGAAGG
GCCACTACCAAACTCTGTGCACCAATTTCCGCAGCTTGGCCATCGATAAAGGCGTTCTCACGGCCAAAGA
GGCTAAAGTCGTCCATGGCGAACCCACTTGTGACCTTCCCGACCTGGACGCGGCTTTGCAGGGTAGGGTG
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ATAGAGTTGTGTTCACAGGAGAGAATGCCGCACTGCAAAACAGTTTCATTAAATCAACTACACGCCGGGA
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AAGCTGAGCTCTCTCTATCTCTGGCATAATTTCAGTCGCCGGCGGTCTGTGCCAGTACCATCAGGAGCAT
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TGTGGCCAAACTCAGTTTTACATTTCCCTCATCCAGGGACTTGTGCCTCGGACTCAATCTGTACCTGCTC
GCGACTACCCTCATGTGTTGGGGACCAGGGCGGTGGAAAGTGCCGCGGCTTACGCCGAAGCTACTAGCTC
CCTGACCGCTACTACTGTCGTTTGCGCCGCCACAGACTGTCTCTCACAAGTATGCAAAGCTCGGCCCGTG
GTTACACTCCCTGTAACAATTAATAAATACACTGGTGTTAACGGGAACAACCAGATATTCCAGGCAGGAA
ATCTTGGCTACTTCATGGGCAGGGGCGTGGATAGGAACCTGCTGCAAGCTCCAGGTGCAGGTCTGCGAAA
GCAGGCAGGAGGGAGCTCTATGAGGAAGAAGTTCGTCTTTGCTACACCCACACTGGGGCTGACAGTGAAA
AGGCGCACACAAGCTGCCACCACCTACGAGATAGAGAATATTCGAGCCGGACTGGAAGCTATTATCTCAC
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ATCCCTCACCCGGGACGATGCCGAATACCTGCTGGGAAGGTTTTCCGTGCTTGCCGATTCAGTCCTTGAG
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TGTGGGGCGGACCCGGTGCCGCCCAGGACAACTTCATCAGTGTCGCTGAGCCTGTGTCTACCGCAAGTCA
AGCTTCTGCTGGACTGCTCCTTGGCGGCGGTGGCCAGGGATCCGGGGGCAGGAGGAAGAGACGCCTGGCC
ACAGTGCTGCCCGGCCTTGAAGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

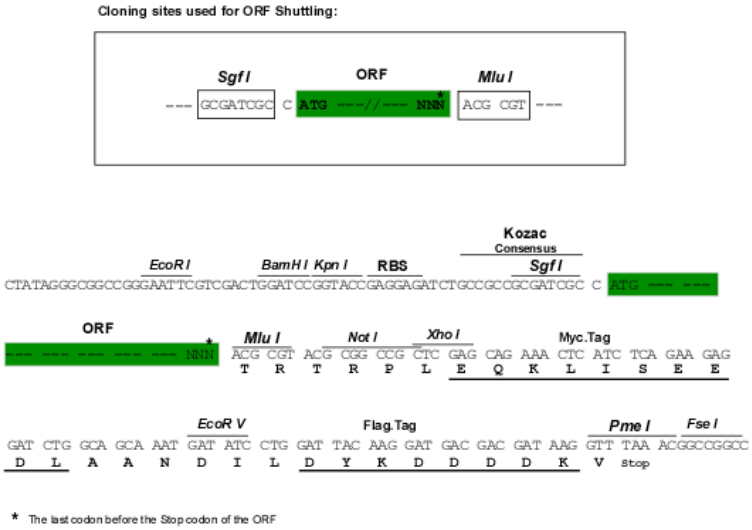
>VC101177 representing YP_401717
Red=Cloning sites Green=Tags

MQGAQTSEDNLGSQSQPGPCGYIYFYPLATYPLREVATLGTGYAGHRCLTVPLLCGITVEPGFSINVKAL
HRRPDPNCGLLRATSYHRDIYVFHNAHMVPPIFEGPGLEALCGETREVFGYDAYSALPRESSKPGDFFPE
GLDPSAYLGAVAITEAFKERLYSGNLVAIPSLKQEVAVGQSASVRVPLYDKEVFPEGVPQLRQFYNSDLS
RCMHEALYTGLAQALRVRRVGKLVELLEKQSLQDQAKVAKVAPLKEFPASTISHPDSGALMIVDSAACEL
AVSYAPAMLEASHETPASLNYDSWPLFADCEGPEARVAALHRYNASLAPHVSTQIFATNSVLYVSGVSKS
TGQGKESLFNSFYMTHGLGTLQEGTWDPCRRPCFSGWGGPDVTGTNGPGNYAVEHLVYAASFSPNLLARY
AYYLQFCQGQKSSLTPVPETGSYVAGAAASPMCSLCEGRAPAVCLNTLFFRLRDRFPPVMSTQRRDPYVI
SGASGSYNETDFLGNFLNFIDKEDDGQRPDDEPRYTYWQLNQNLLERLSRLGIDAEGKLEKEPHGPRDFV
KMFKDVDAAVDAEVVQFMNSMAKNNITYKDLVKSCYHVMQYSCNPFAQPACPIFTQLFYRSLLTILQDIS
LPICMCYENDNPGLGQSPPEWLKGHYQTLCTNFRSLAIDKGVLTAKEAKVVHGEPTCDLPDLDAALQGRV
YGRRLPVRMSKVLMLCPRNIKIKNRVVFTGENAALQNSFIKSTTRRENYIINGPYMKFLNTYHKTLFPDT
KLSSLYLWHNFSRRRSVPVPSGASAEEYSDLALFVDGGSRAHEESNVIDVVPGNLVTYAKQRLNNAILKA
CGQTQFYISLIQGLVPRTQSVPARDYPHVLGTRAVESAAAYAEATSSLTATTVVCAATDCLSQVCKARPV
VTLPVTINKYTGVNGNNQIFQAGNLGYFMGRGVDRNLLQAPGAGLRKQAGGSSMRKKFVFATPTLGLTVK
RRTQAATTYEIENIRAGLEAIISQKQEEDCVFDVVCNLVDAMGEACASLTRDDAEYLLGRFSVLADSVLE
TLATIASSGIEWTAEAARDFLEGVWGGPGAAQDNFISVAEPVSTASQASAGLLLGGGGQGSGGRRKRRLA
TVLPGLEV

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NC_007605

**ORF Size:** 3384 bp

**OTI Disclaimer:** The molecular sequence of this clone can be viewed by clicking the "ORF Nucleotide Sequence" link above. This sequence represents the NCBI reference after codon optimization for human cell expression, and retaining the same decoded protein sequence. The stop codon in the native sequence was removed to create the in-frame c-terminal fusion with a Myc-DDK tag.

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| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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:** | NC_007605.1, YP_401717 |
| **RefSeq ORF:** | 3384 bp |
| **Locus ID:** | 3783678 |
| **UniProt ID:** | P03211 |
| **MW:** | 123.1 kDa |