

Product datasheet for **RG214349**

BNC2 (NM_017637) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	BNC2
Synonyms:	BSN2; LUTO
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG214349 representing NM_017637
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCACACCTTGGGCCACCCACCTCCACATAGCCTTAATTACAAATCAGAGGACAGGCTTAGTGAGC
AAGACTGGCCAGCATATTTCAAGGTCCCATGTTGTGGGTTGATACATCTCAAATTGAGTCAGAAGAGGC
AGAAGTGGATGTGAGAGAAAGAGAGACACAGAGAGACAGAGGCCAAGAGGGCAAGAGACTTGACTTTA
AGAGACTCCTGTACTGACAACCTCCATGCAGTTCGGAACAGAGACTACGGCTGAACCAAGGTTTCATGG
GGACATGGCAAAACGCTGATACTAACCCTCTTATTGAGAATGTCCCAACAGGCCATCCGTTGCACACTGGT
AAACTGCACATGTGAATGTTTTAGCCAGGGAAGATTAACTGAGGACTTGTGATCAGTGTAACATGGC
TGGGTGGCACATGCCTTGGATAAGCTCAGCACGCAGCACCTGTACCAACCCACCAAGTGGAGATTGTGC
AGTCCAACGTCGTGTTGACATCAGCAGCCTGATGCTCTATGGGACACAAGCAGTGCCTGTGCGGCTAAA
GATCCTGCTGGACCGTCTCTTCAAGCGTCTGAAGCAAGAGGAGGTACTGCACATACTGCACGCTTGGC
TGGACTCTGCGGGACTATGTCCGAGGATACATCCTTCAGGATGCTGCTGGCAAGGTGCTGGACCGCTGGG
CCATCATGTCTCGAGAAGAGGAAATCATCACCTTCAGCAGTTTCTGCGGTTTGAGAAACCAATCCAT
TGTGGAGCTGATGGCAATTCAAGGAGAAAGAGGAGGCGCTGGCTGTACCATCTTCAAAGACAGACTCA
GATATAAGGACTTTTATTGAGAGCAATAATCGCACAGGAGTCCAGCCTCCTTGCTCACTTAGAGAACA
GCAATCCTTCCAGCATTATCACTTCGAAAACATCCCAACAGCCTTGCAATTTCTGCTTCCATTCCAGTA
CATAAACCTGTCTCAGCACCACTGCTAGGGTTGCCTCCAATGGGCTACTGTTAGAGCAACCAAGGTTG
AGGCTGCGGAACCCAGCCTTTCAACTCAGAATGAATATAATGAGAGCAGCGAATCCGAAGTTTCTCCCA
CACCTTATAAGAAATGATCAAAACCCCAATAGAAATGCCCTGACCAGCATTACTAATGTGGAGCCCAAAAC
CGAGCCAGCCTGTGTCTCTCCATTGAGAATTCTGCCCAAGTCAGTGATCTAACCAAACTGAACACCCA
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CAAACATCGATGCACCATTTGAAGGTTGCAACATGGTCTTTAGCTCCCTCCGAAGTCGTAATCGCCACAGT
GCAAAACCCCAATCTCGCCTTCACATGCCTATGCTAAGGAATAACCGAGATAAAGATTTAATTCGGGCCA



CCTCAGGAGCTGCCACCCCTGTCATAGCAAGTACAAAATCAAATCTGGCACTCACAAGCCCTGGCCGACC
 CCCAATGGGTTTTACCACTCCCCCTCTAGACCCCTGCTTGCAAAATCCTCTCCCTAGCCAGCTAGTATTT
 TCTGGGCTAAAGACTGTACAACCAAGTTCCTCCATTTTATAGAAGTTTACTACTCCAGGGGAAATGGTGA
 GTCCTCCAACCTCCCTCCCAACCAAGTCCCATCATTCCAACCAAGTGGTACCATAGAGCAGCACCCCCCGCC
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 AAAAAGCCAGGAAGTCAAGCATGCCTGTGAAGATTGAGAAGGAAATTATTGATACCGCCGATGAGTTTG
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 ACATCGTAACTGTTGACCAAGAAGTCTGATGACATGGGCCTGGACTCGTCGACGCCCTCCCTTAGCAAG
 GACCTCCGCGATGAATTTTGGTGAAGATATATGGTGCCAGCACCCATGGGGCTCGATGTCAGGGAAG
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 GACGCAGGCAGCGATGAGGGGATTCTTCTCGATGACATTGACGGGGCAGTGACAGTGGGGAGTCCGCAC
 ACAAGGCCGAGGCCCTGCCCTCCCTGGCAGCCTAGGGGCTGAAGTTTCAGGATCTCTTATGTTACAGCAG
 CTTGTCTGGGAGCAATGGTGGGATCATGTGCAACATTTGCCACAAATGTACAGCAACAAGGGGACCCTG
 AGAGTGCACACAAAAGTGTGCAATTTGAGAGAAATGCACAAGTGCAAAAGTCCAGGTTGCAATATGATGT
 TTTCTCTGTACGAAGCCGAAATCGGCACAGTCAGAACCCTAATCTCCACAAAACATTCCCTTCACTTC
 AGTAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214349 representing NM_017637
 Red=Cloning site Green=Tags(s)

MAHLGPTPPHSLNYKSEDRLSEQDWPAYFKVPCGVDTSQIESEAEVDVRERETQRDREPKRARDLTL
 RDSCDQNSMQFGTRTTAEPGFMGTWQADTNLLFRMSQQAIRCTLVNCTCECFQPGKINLRTCDQCKHG
 WVAHALDKLSTQHLHYPTQVEIVQSNVVDISSLMLYGTQAVPVRLLKILLDRLFVSLKQEEVLHILHGLG
 WTLRDYVRGYILQDAAGKVLDRWAIRMSREEEIIITLQQFLRFGETKSIVELMAIQEKGQAVAVPSSKTD
 DIRTFIESNNRTRSPSLLAHLENSNPSSIIHFENIPNSLAFLLPFQYINPVSAPLLGLPPNGLLLEQPG
 RLREPSLSTQNEYNESSESEVSPPTYKNDQTPNRNALTSITNVEPKTEPACVSPIQNSAPVSDLTKEHP
 KSSFRIHRMRMGASARKGRVFCNACGKTFYDKGTLKIHYNAVHLKIKHRCTIEGCMNVFSSLRSRNRHS
 ANPNRPLHMPMLRNNRDKDLIRATSGAATPVIASTKSNLALTSPGRPPMGFTTTPPLDPVLQNPPLPSQLV
 SGLKTVQVPVPPFYRSLTPGEMVSPPTSLPTSPIIPTSGTIEQHPPPPSEPVPVAVMMATHEPSADLAPK
 KKPRKSSMPVKIEKEIIDTADEFDDDDDDPNDGGAVVNDMSHDNHCHSQEEMSPGMSVKDFSKHNRTRCI
 SRTEIRRADSMTSEDQEPERDYENESSESEPKLGEESMEGDEHIHSEVSEKVLNMRPDPENHSEPSHQD
 VIKVKEEFTDPTYDMFYMSQYGLYNGGGASMAALHESFTSSLNYGSPQKFSPEGDLCSPPDKICYVCKK
 SFKSSYSVKLHYRNVHLKEMHVCTVAGCNAAFPSRRSRDRHSANINLHRKLLTKELDDMGLDSSQPSLSK
 DLRDEFLVKIYGAQHPMGLDVREDASSPAGTEDSHLNGYGRGMAEDYMLDLSTTSSLQSSSIHSSRES
 DAGSDEGILLDDIDGASDSGESAHKAEAPALPGSLGAEVSGSLMFSLSGSNGGIMCNIHKMYSNKGTL
 RVHYKTVHLREMHKCKVPGCNMMFSSVRSRNRHSQNPNLHKNIPFTSVD

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_017637

ORF Size: 3297 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](#)

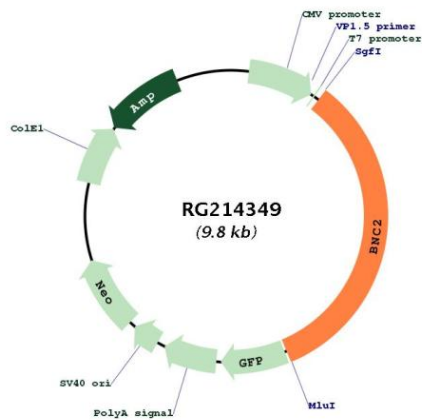
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_017637.6</u>
RefSeq Size:	12926 bp
RefSeq ORF:	3300 bp
Locus ID:	54796
UniProt ID:	<u>Q6ZN30</u>
Cytogenetics:	9p22.3-p22.2
Gene Summary:	This gene encodes a conserved zinc finger protein. The encoded protein functions in skin color saturation. Mutations in this gene are associated with facial pigmented spots. This gene is also associated with susceptibility to adolescent idiopathic scoliosis. [provided by RefSeq, Jul 2016]

Product images:

Circular map for RG214349