

Product datasheet for **MG204714**

Ibsp (NM_008318) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ibsp (NM_008318) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ibsp
Synonyms:	BSP; Bsp2; BSP II; BSPII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204714 representing NM_008318 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGACTGCTTTAATTTTGCTCAGCATTTTGGGAATGGCCTGTGCTTTCTCGATGAAAAATTTCCATC
GAAGAATCAAAGCAGAGGATTCTGAAGAAAACGGGGTCTTTAAGTACCGCCACGCTACTTTCTTTATAA
GCATGCCTACTTTTATCCTCCTCTGAAACGGTTTCCAGTCCAGGGAGGCAGTGACTCTTCAGAAGAAAAT
GGAGACGGCGATAGTTCCGAAGAGGAGGGGGAGGAAGAGGAGACTTCAAACGAAGAGGAAAACAATGAAG
ATTCTGAGGGGAATGAAGACCAGGAGGGCGAGGCAGAGAATCCACACTTCCACACTCTCGGGTGTAAAC
AGCTAGCTACGGAGCAGAGACCACCCCAAGCAGACTTTTGAGTTAGCGGCACTCCAAGTCCCAAG
AAGGCTGGAGATGCAGAAAGCAGGGCTCCAAAAGTGAAGGAAAGCGACGAGGAAGAAGAAGAAGAGG
AAGAGGAAGAAAATGAGAACGAAGAAGCAGAAGTGGATGAAAACGAGCTGGCGGTCAACGGCACCAGCAC
CACTCCACGGAGGTGGATGGCGGGAATGGCAGCAGCGGAGGAGACAACGGAGAAGAAGCCGAAGCAGAG
GAGGCAAGCGTCACTGAAGCAGGTGCAGAAGGAACACAGGGGGCAGGGAAGTACCAGTGTGGCACCC
AGACAGCTGTCTTCTGAACGGGTTTTCAGCAGACAACCCACCGCCGAAGCCTATGGGACCACCTCGCC
ACCGATCAGAAAAAGCAGCACCGTTGAGTATGGGGGAGAATACGAACAAACAGGCAACGAATACAACAAT
GAGTATGAAGTCTATGACAACGAGAACGGGGAGCCTCGTGCGCACACTTACCGAGCTTATGAGGATGAAT
ACAGCTACTACAAGGGGCATGGCTATGAAGGCTACGAGGGTCAGAATTATTACTACCATCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204714 representing NM_008318
 Red=Cloning site Green=Tags(s)

MKTALILLSILGMACAFSMKNFHRIKAEDSEENGVFKYRPRYFLYKHAYFYPLKRFPPVQGGSDSSEEN
 GDGDSSEEEGEEEEETSNEEENNEDSEGNEDEQEAENSTLSTLSGVTASYGAETTPQAQTFELAALQLPK
 KAGDAESRAPKVKESDEEEEEEEEEENENEEAEVDENELAVNGTSTNSTEVDGGNGSSGGDNGEAEAE
 EASVTEAGAEGTTGGRELT SVGTQTAVLLNGFQQTTPPEAYGTTSPPIRKSSTVEYGGEYEQTGNEYNN
 EYEVYDNENGEPRGDTYRAYEDEYSYKGHGYEGYEGQNYHHQ

TRTRPLE - GFP Tag - V

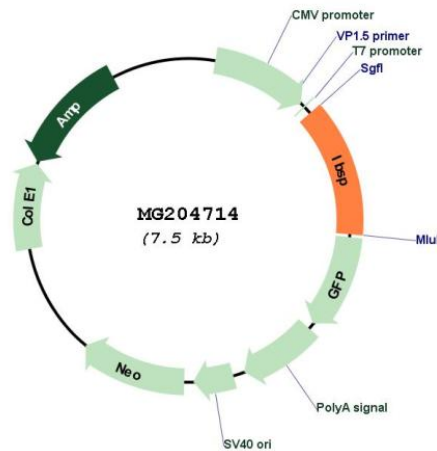
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_008318

ORF Size: 972 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:	<ol style="list-style-type: none">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_008318.3 , NP_032344.2
RefSeq Size:	1950 bp
RefSeq ORF:	975 bp
Locus ID:	15891
UniProt ID:	Q61711
Cytogenetics:	5 50.68 cM
Gene Summary:	Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction. Promotes Arg-Gly-Asp-dependent cell attachment (By similarity).[UniProtKB/Swiss-Prot Function]