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Product datasheet for MG225882

Ivns1abp (NM_001039511) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ivns1abp (NM_001039511) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ivns1abp
Synonyms:	1190004M08Rik; 1700126I16Rik; AA960440; HSPC068; mKIAA0850; ND1; Nd1-L; Nd1-S; NS-1; NS1-BP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG225882 representing NM_001039511
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATTCCCAATGGATATTTGATGTTTGAAGATGAAAATTTTATTGAATCATCTGTTGCCAAATTAAATG
CCTTGAGGAAGAGTGGGCAGTTCTGTGATGTTCGACTTCAGGTCTGTGGCCATGAGATGCTAGCACACAG
GGCAGTCCTGGCTTGCTGTAGCCCCTATCTATTTGAAATCTTCAATAGTGACAGTGACCCTCATGGAGTT
TCTCATGTGAAGTTGGATGATCTCAATCCAGAAGCTGTTGAAGTCTTGCTGAATTATGCATACACGGCTC
AGTTGAAAGCTGATAAGGAATTAGTAAAAGATGTTTATTCTGCAGCCAAGAAGCTGAAGATGGACCGAGT
CAAGCAGGTCTGCGGAGATTATTTACTATCTAGAATGGATGTTACTAGCTGCATCTCTTACCGAAATTTT
GCAAGTTGTATGGGAGACTCCCGTTTGTTGAATAAAGTTGACGCTTATATTCAGGAGCATTTGTTACAAA
TTTCAGAAGAGGAGGAATTTCTTAAGCTTCCGAGACTAAAGTTGGAGGTAATGCTTGAAGATAATGTGTG
CTTGCCCAGCAATGGCAAGTTGTATACAAAGGTAATCAACTGGGTGCAGCGTAGCATCTGGGAGAATGGA
GACAGCCTGGAGGAGCTCATGGAAGAGGTTTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

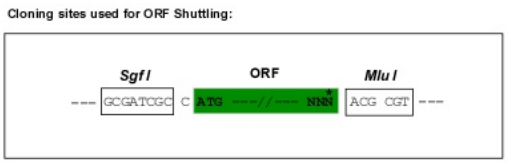
>MG225882 representing NM_001039511
Red=Cloning site Green=Tags(s)

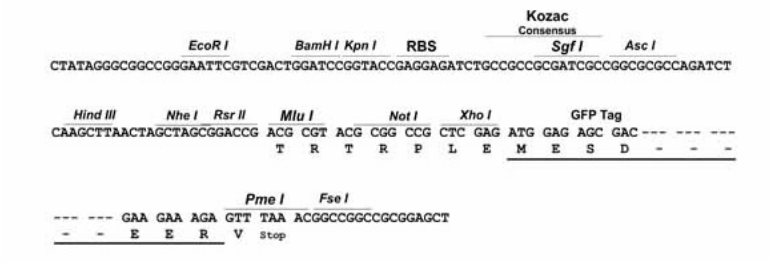
MIPNGYLMFEDENFIESSVAKLNALRKSGQFCDVRLQVCGHEMLAHRAVLACCSPYLFEIFNSDSDPHGV
SHVKLDDLNPEAVEVLLNYAYTAQLKADKELVKDVYSAAKKLKMDRVKQVCGDYLLSRMDVTSCISYRNF
ASCMGDSRLLNKVDAYIQEHLLQISEEEEFLKLPRLKLEVMLEDNVCLPSNGKLYTKVINWVQRSIWENG
DSLEELMEEVY

TRTRPLE - GFP Tag - V

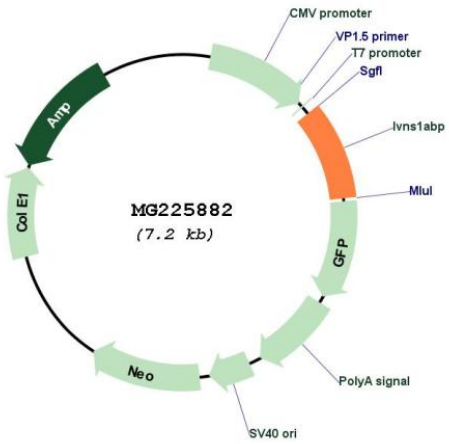
Restriction Sites: SgfI-MluI

Cloning Scheme:





Plasmid Map:



ACCN: NM_001039511

ORF Size: 663 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.
RefSeq:	NM_001039511.1, NP_001034600.1
RefSeq Size:	2793 bp
RefSeq ORF:	666 bp
Locus ID:	117198
UniProt ID:	Q920Q8
Cytogenetics:	1 G1
Gene Summary:	Involved in many cell functions, including pre-mRNA splicing, the aryl hydrocarbon receptor (AHR) pathway, F-actin organization and protein ubiquitination. Plays a role in the dynamic organization of the actin skeleton as a stabilizer of actin filaments by association with F-actin through Kelch repeats (PubMed:12213805, PubMed:16317045). Protects cells from cell death induced by actin destabilization (PubMed:16952015). Functions as modifier of the AHR/Aryl hydrocarbon receptor pathway increasing the concentration of AHR available to activate transcription (By similarity). In addition, functions as a negative regulator of BCR(KLHL20) E3 ubiquitin ligase complex to prevent ubiquitin-mediated proteolysis of PML and DAPK1, two tumor suppressors (By similarity). Inhibits pre-mRNA splicing (in vitro) (By similarity). [UniProtKB/Swiss-Prot Function]