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Product datasheet for MG219575

Usp35 (NM_001177412) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usp35 (NM_001177412) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Usp35
Synonyms:	Gm493; Gm1088
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG219575 representing NM_001177412, codon optimized.
Due to the complexity of NM_001177412, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATAAAATACTGGAAGCAGTGGTGACTAGCAGTTACCCTGCCAGTGTGAAGCAGGGACTGGTGAGAA
GAGTGCTGGAGGCCGCCAGACAGCCCCTTGAGCGCGAACAGTGTTTGGCACTCCTCGCTCTGGGAGCTAG
GCTGTACGTGGGGGGTACCGAAGAACTCCCCAGGAGAGTGGGCTGCCAGCTGCTCCATGTTGCCGGCCGG
CATCATCCCGACGTGTTTGCCGAGTTCTTCAGCGCTAGGCGCGTCCTGCGCCTTCTTCAGGGGGGCGCTG
GACCTCCTGGTGCGAGAGCACTGGCCTGCGTTCAGCTCGGGTTGCAACTCTTGCCTGATGGCCCTGCCGC
GGACGAGGTCTTCGCCCTGCTCCGCAGGGAGGTACTGAGAACTGTTTGTGAACGGCCGGGCCCCGCTGCT
TGTGCTCAGGTGGCCCGCCTGTTGGCTAGGCACCCACGCTGTGTGCCAGACGGTGCCCACAGGCTGCTCT
TCTGCCAACAGCTTGTGAGATGCCTGGGCAGATTTAGGTGTCCTGCCGAAGGTGAGGAGGGCGCAGTAGA
GTTCCTGGAGCAGGCCCAACAGGTGTCCGGGCTGCTCGCGCAGTTGTGGAGAGCACAGCCCGCCGCCATC
CTCCCTTGTCTGAAAGAGCTTTTTGCCGTGATCTCCTGTACCGAGGAAGAGCCACCCTCTAGTGCCCTCG
CCTCAGTGGTACAGCATCTTCCCCTTGAATTGATGGATGGTGTGGTCCGGAACCTCAGCAATGATGATAG
TGTGACAGACTCCCAGATGCTGACTGCCATTAGCAGGATGATCGACTGGGTGTCCTGGCCCCTGGGGAAG
AACATTGACAAGTGGATCATTGCCCTGCTGAAGGGCCTGGCTGCTGTTAAGAAGTTCAGCATCTTGATCG
AGGTTTCGCTCGCCAAAATTGAGAAGGTCTTCTCTAAGCTGCTGTACCCCATCGTGCGGGGAGCTGCCCT
ATCTGTCCTTAAGTACATGCTCCTGACTTTCCAGCACTCCCATGAGGCCTTCCACCTGCTTCTCCCTCAC
ATTCCCGCCATGGTGGCCTCTCTGGTCAAGGAGGACTCGAACTCTGGGACCAGCTGCCTGGAGCAGCTGG

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CAGAGCTGGTGCACTGCATGGTGTTTCGGTTCCCGGGCTTCCCAGACCTGTATGAGCCTGTCATGGAAGC
CATCAAGGACCTCCACATTCCCAATGAGGACCGAATCAAGCAGCTGCTGGGGCAGGATGCCTGGACCTCA
CAGAAGAGTGAACTGGCTGGCTTCTATCCCCGGCTCATGGCCAAGTCAGACACGGGCAAGATTGGCTTAA
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CTGTGTGCTCCGCTTGACTGAGAACAACTCCCAGCCCTTGATGACCAAGCTGCAGTGGCTCTTTGCCTTC
CTGGAGCACAGTCAGAGGCCTGCCATCTCTCCTGAGAACTTCCTCTCTGCGTCCTGGACGCCCTGGTTCA
GCCCTGGCACCCAGCAAGACTGTTCAGAGTATCTGAAGTACCTGCTGGATCGGCTTCATGAAGAAGAGAA
AACTGGGATGAGGATCTGCCAGAAGCTCAAGCAGTCCAGCTTGCCATCCCCACAGGAAGAGCTCCCCAGC
TCCAATGCAACGTCGGTGGAGAAGATGTTCGGAGGCAAGATTGTGACCCGGATATGCTGTCTCCACTGCC
TCAATGTTTCCTCAAGGGAGGAAGCCTTCACAGACCTCTCTTTGGCCTTCCCTCCTCCTGAGAGAAGTCG
CCACCGCCGCCTCGGCTCCGTGATGCTCCCCACGGAGGATGTGCGAGTCCAGGAGTTGACACTGGCTCCC
AGAGCCCCCGGGGCGCAGAGGCAGAGGAAGCGCTGCATCACAGGGGACGCTCCTCGCACTGGGCTGGACA
GTGAAGGTGTGGACACCATAGGCACTGGTGGACGGAGTGGGCAGGAGAAGGTGGAGAGGGAGCAGGCTGG
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GCTACCTCATCCTCACACTACTGCGCTTCTCCTTTGACCTGCGTACCATGCGGCGGCGTAAGATCCTGGA
CGATGTCACCATCCCCCTTTTGCTGCGCCTGCCACTGGCTGGGGGTCAGGGCCAGGCCTATGACCTCTGT
AGTGTGGTGGTGCACTCTGGAGTGTCCTCAGAGAGTGGCCACTATTACTGCTATGCTCGTGAGGGTGCTG
CTCGGCCAGCTCCTGTCCTGGGATCCACAGAGAGGCCTGAGCCTGAGAACCAGTGGTACCTGTTTAATGA
TACCCGGGTGTCTTACTCATCCTTTGAGTCTGTCAGCAATGTCACCTCCTTCTTCCCTAAGGACACTGCC
TATGTGCTCTTCTACCGCCAGAGGCCCAGGGAGGACCCTGCGGCTGAGCCCGGCTCTCCTAGAGTCCGAG
CAGAGCCTACCCTCCACAAGGACCTGATGGAGGCCATTTCCAAAGACAATGTCCTCTACCTGCAGGAGCA
GGAGAAGGAGGCCCGGAGCAGGGCAGCTTATATCTCTACACTCCCTGCCCCTCCACACTGGGGTAGGGGC
TTCGATGAAGACAAAGATGAGGATGAAGGCTCACCAGGGGGCTGCAACCCTGCAGGTGGCAATGGTGACT
TCCACAGACTGGTCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219575 representing NM_001177412
Red=Cloning site Green=Tags(s)

MDKILEAVVTSSYPASVKQGLVRRVLEAARQPLEREQCLALLALGARLYVGGTEELPRRVGCQLLHVAGR
HHPDVFAEFFSARRVLRLLQGGAGPPGARALACVQLGLQLLPDGPAADEVFALLRREVLRTVCERPGPAA
CAQVARLLARHPRCVPDGAHRLLFCQQLVRCLGRFRCPAEGEEGAVEFLEQAQQVSGLLAQLWRAQPAAI
LPCLKELFAVISCTEEEPPSSALASVVQHLPLELMDGVVRNLSNDDSVTDSQMLTAISRMIDWVSWPLGK
NIDKWIIALLKGLAAVKKFSILIEVSLAKIEKVFSKLLYPIVRGAALSVLKYMLLTFQHSHEAFHLLLPH
IPAMVASLVKEDSNSGTSCLEQLAELVHCMVFRFPGFPDLYEPVMEAIKDLHIPNEDRIKQLLGQDAWTS
QKSELAGFYPRLMAKSDTGKIGLINLGNTCYVNSVLQALFMASDFRHCVLRLTENNSQPLMTKLQWLFAF
LEHSQRPAISPENFLSASWTPWFSPGTQQDCSEYLKYLLDRLHEEEKTGMRICQKLKQSSLPSPQEELPS
SNATSVEKMFGGKIVTRICCLHCLNVSSREEAFTDLSLAFPPPERSRHRRLGSVMLPTEDVRVQELTLAP
RAPGAQRQRKRCITGDAPRTGLDSEGVDTIGTGGRSGQEKVEREQAGKEKEVAEDREEEGTREEEKEEGE
EKDKEKEKKEDEKEKEAENGKEKEGDSLGPGTHREAATPPREQTCGPEGSRSVLDLVNYFLSPERLTAEN
RYYCESCASLQDAEKVVELSQGPRYLILTLLRFSFDLRTMRRRKILDDVTIPLLLRLPLAGGQGQAYDLC
SVVVHSGVSSESGHYYCYAREGAARPAPVLGSTERPEPENQWYLFNDTRVSYSSFESVSNVTSFFPKDTA
YVLFYRQRPREDPAAEPGSPRVRAEPTLHKDLMEAISKDNVLYLQEQEKEARSRAAYISTLPAPPHWGRG
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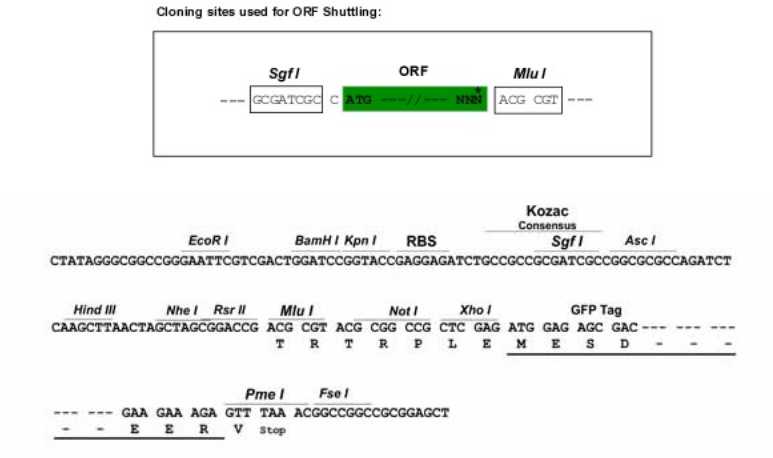
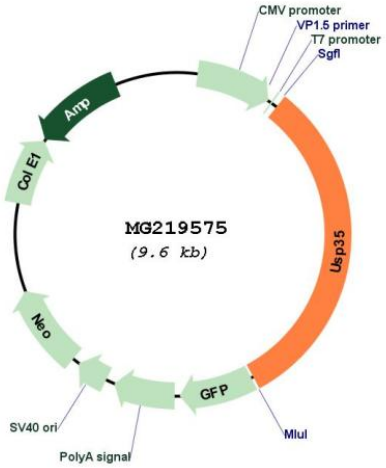
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001177412
ORF Size:	3027 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_001177412.1, NP_001170883.1
RefSeq Size:	3982 bp
RefSeq ORF:	3030 bp
Locus ID:	244144
Cytogenetics:	7 E1