

Product datasheet for MR212152

Jag1 (NM_013822) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Jag1 (NM_013822) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Jag1
Synonyms: ABE2; Gsfabe2; Htu; Ozz; Ser-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR212152 representing NM_013822
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGGTCCCCACGGACGCGGGCCGGCCGGGGCGCCCTGAGTCTTCTGCTCGCCCTGCTCTGTGCC
 TGCGAGCCAAGGTGTGCGGGCCCTCGGGTCAGTTTGGAGTGGAGATCCTGTCCATGCAGAACGTGAATGG
 AGAGCTACAGAAATGGAACTGTTGTGGTGGAGTCCGGAACCTGGCGACCGCAAGTGCACCCGCGACGAG
 TGTGATACGTACTCAAAGTGTGCCTCAAGGAGTATCAGTCCCGCTCACTGCCGGGGACCTGCAGCT
 TCGGCTCAGGGTCTACGCTGTGCATCGGGGTAACACCTCAATCTCAAGGCCAGCCGTGGCAACGACCG
 TAATCGCATCGTACTGCCTTTCAGTTTCGCTGGCCGAGGTCCTACACTTTGCTGGTGGAGCCCTGGGAT
 TCCAGTAATGACACTATCAACCTGATAGCATAATTGAAAAGGCTTCTCACTCAGGCATGATAAACCCCTA
 GCCGGCAATGGCAGACACTGAAACAAAACAGGGATTGCCACTTCGAGTATCAGATCCGAGTGACCTG
 TGATGACCACTACTATGGCTTTGGCTGCAATAAGTTCTGTGTCGTCAGAGATGACTTCTTTGGACATTAT
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 GCCGACAGGGCTGAGTCCCAAGCATGGGTCTTGTAAACTCCAGGTGACTGCAGGTGCCAGTACGGTTG
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 CAGTGCCTGTGAGACCAACTGGGGTGGACAGCTCTGTGACAAAGATCTGAATTAAGTGTGGGACTCATC
 AGCCCTGTCTCAACCGGGAACATGTAGCAACACTGGGCCTGACAAATACCAAGTGCCTCTGCCAGAGGG
 CTAAGTCCGGCCCAACTGTGAAATTGCTGAGCATGCTTGTCTCTGACCCCTGCCATAACCGAGGCAGC
 TGCAAGGAGACCTCCTCAGGCTTTGAGTGTGAGTGTCTCCAGGCTGGACTGGCCCCACGTGTTCCACAA
 ACATCGATGACTGTTCTCCAAATAACTGTTCCCATGGGGCACCTGCCAGGATCTGGTGAATGGATTCAA
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TGTGCTAGCAACCCCTGCTTGAATGGGGTCACTGTCAGAATGAAATCAACAGATTCCAGTGTCTCTGTC
CCTACTGGTTTCTCTGAAACCTCTGTCAGCTGGACATCGATTACTGCGAGCCCAACCCCTGCCAGAATGG
CGCCCAGTGCTACAATCGTGCCAGTGACTATTTCTGCAAGTGCCCGAGGACTATGAGGGCAAGAACTGC
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CGAAAAATGTCAAAAATCAGGACACACAACCTCGGAAGTGGAGGAGGATGACATGGATAAACACCAGCAGAA
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ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR212152 representing NM_013822
 Red=Cloning site Green=Tags(s)

MRSRPRTRGRPGRPLSLLALLCALRAKVCGASGQFELEILSMQNVNDELQNGNCCGGVVRNPGDRKCTRDE
 CDTYFKVCLKEYQSRVTAGGPCSFSGSSTPVIGNTFNLKASRGNDNRNRIVLPFSAWPRSYYTLLVEAWD
 SSNDTIQPDSEIEKASHSGMINPSRQWQTLKQNTGIAHFEYQIRVTCDDHYYGFGCNKFCRPRDDFFGHY
 ACDQNGNKTCEMGWMPDCNKAICRQGCSPKHGSKLPGDCRCQYGWQGLYCDKCIHPHGCYVHGTCTNEPW
 QCLCETNWGGQLCDKDLNYCGTHQPLNRGTCSNTGPDKYQCSCPEGYSGPNCEIAEHACLSDPCHNRGS
 CKETSSGFECECSPGWTGPTCSTNIDDCSPNNSHGGTCQDLVNGFKVCVPPQWTGKTCQLDANECEAKP
 CVNARSCKNLIASYYCDCLPGWMQNCNDININDCLGQCQNDASCRDLVNGYRCICPPGYAGDHCCERDIDE
 CASNPCLNGGHCQNEINRFQCLCPTGFSGNLCQLDIDYCEPNPCQNGAQCYNRASDYFCPCPEYEGKNC
 SHLKDHCRTTTCVIDSCTVAMASNDTPEGVRYISSNVCGPHGKCKSQSGGKFTCDCNKGFTGTYCHENI
 NDCESNPCKNGGTCIDGVNSYKICSDGWEGAHCENNINDCSQNPCHYGGTCRDLVNDFYCDCKNGWKGK
 TCHSRDSQCDEATCNNGGTCYDEVDTFKCMCPGGWEGTTCNIARNSSCLPNPCHNGGTCVNGDSFTCVC
 KEGWEGPICTQNTNDCSPHPCYNSGTCDVDGNWYRCECAPGFAGPDCRININECQSSPCAFGATCVDEIN
 GYQCICPPGHSGAKCHEVSGRSCITMGRVILDGAKWDDDCNTCQCLNGRVACSKVWCGPRCRLHKSHNE
 CPSGQSCIPVLDQCFVRPCTGVGECRSSSLQPVKTKCTSDSYQDNCANITFTFNKEMMSPGLTTEHIC
 SELRNLNILKNVSAEYSIYIACEPSLSANNEIHVAISAEDIRDDGNPVKEITDKIIDLVSKRDGNSSLIA
 AVAEVRVQRRPLKNRTDFLVPLSSVLTVAVWCCLVTAFYWCVRRRKPSSHTHSAPEDNTTNNVREQLN
 QIKNPIEKHGANTVPIKDYENKNSKMSKIRTHNSEVEEDMDKHQKQVRFQKQPVYTLVDREEKAPSGTP
 TKHPNWTNKQDNRDLESAQSLNRMEYIV

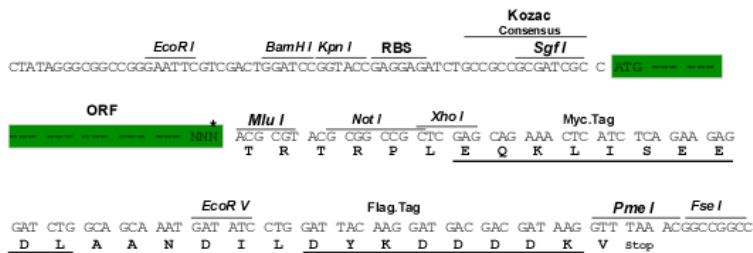
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9026_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



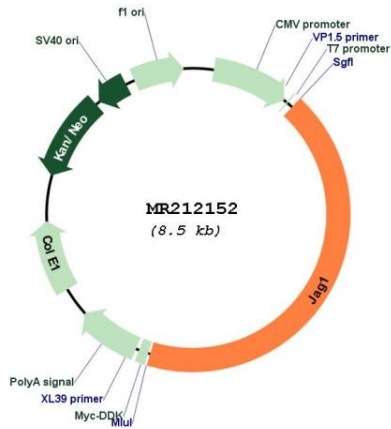
* The last codon before the Stop codon of the ORF

ACCN: NM_013822

ORF Size: 3654 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_013822.5 , NP_038850.1
RefSeq Size:	5493 bp
RefSeq ORF:	3657 bp
Locus ID:	16449
UniProt ID:	Q9QXX0
Cytogenetics:	2
MW:	134.6 kDa
Gene Summary:	Ligand for multiple Notch receptors and involved in the mediation of Notch signaling. May be involved in cell-fate decisions during hematopoiesis. Seems to be involved in early and late stages of mammalian cardiovascular development. Inhibits myoblast differentiation (By similarity). May regulate fibroblast growth factor-induced angiogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR212152