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Product datasheet for RC211925

Jagged 2 (JAG2) (NM_002226) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Jagged 2 (JAG2) (NM_002226) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Jagged 2
Synonyms:	HJ2; SER2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC211925 representing NM_002226
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGGCGCAGGGCCGGGGGCGCCTTCCCCGGCGGCTGCTGCTGCTGGCGCTCTGGGTGCAGGCGG
CGCGGCCCATGGGCTATTTCGAGCTGCAGCTGAGCGCGCTGCGGAACGTGAACGGGGAGCTGCTGAGCGG
CGCCTGCTGTGACGGCGACGGCCGGACAACGCGCGCGGGGGGCTGCGGCCACGACGAGTGCGACACGTAC
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CCACGCCCGTGCTGGGCGGCAACTCCTTCTACCTGCCGCCGGCGGGCGCTGCGGGGGACCGAGCGCGGGC
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TCCTTTACCCTCATCGTGGAGGCCTGGGACTGGGACAACGATACCACCCCGAATGAGGAGCTGCTGATCG
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GGAGGCCGGCATTGCGAGCTGGAACGAGACAAGTGTGCCAGCAGCCCCTGCCACAGCGGCGGCCTCTGCG
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Protein Sequence:

>RC211925 representing NM_002226
Red=Cloning site Green=Tags(s)

MRAQGRGRLPRRLLLLLALWVQAARPMGYFELQLSALRNVNGELLSGACCDGDGRTTRAGGCGHDECDTY
VRVCLKEYQAKVTPTGPCSYGHGATPVLGGNSFYLPPAGAAGDRARARARAGGDQDPGLVVIPFQFAWPR
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CRPRNDFFGHYTCDQYGNKACMDGWMGKECKEAVCKQGCNLLHGGCTVPGECRCSYGWQGRFCDECVPYP
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TCVDEINGYRCSCPPGRAGPRCQEVIGFGRSCWSRGTPFPHGSSWVEDCNSCRCLDGRRDCSKVWCGWKP
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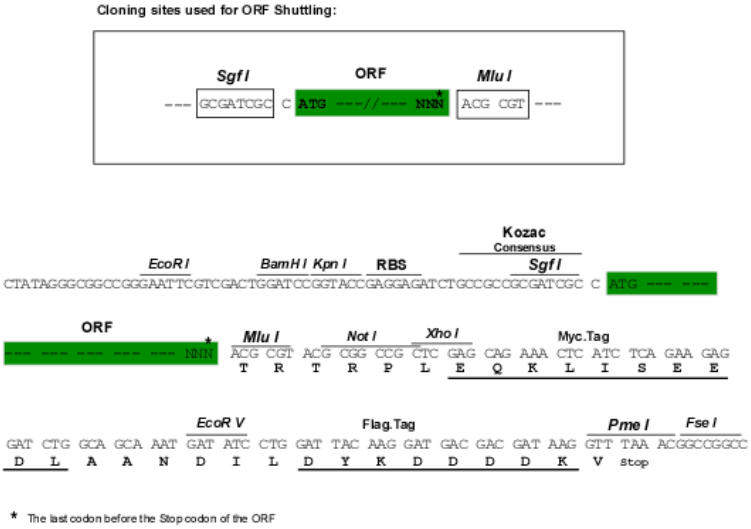
EESANNQWAPLNPIRNPIERPGGHKDVLYQCKNFTPPPRRADEALPGPAGHAAVREDEEDEDLGRGEEDS
LEAEKFLSHKFTKDPGRSPGRPAHWASGPKVDNRAVRSINEARYAGKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6220_b04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



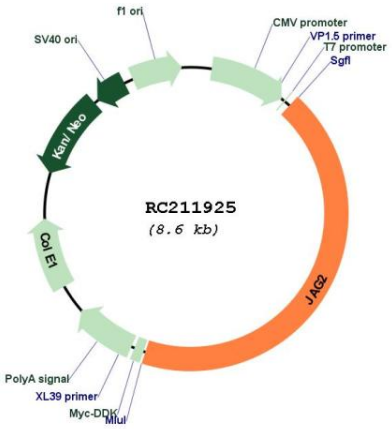
ACCN: NM_002226

ORF Size: 3714 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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:	NM_002226.2
RefSeq Size:	5077 bp
RefSeq ORF:	3717 bp
Locus ID:	3714
UniProt ID:	Q9Y219
Cytogenetics:	14q32.33
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Notch signaling pathway
MW:	133.37 kDa

Gene Summary: The Notch signaling pathway is an intercellular signaling mechanism that is essential for proper embryonic development. Members of the Notch gene family encode transmembrane receptors that are critical for various cell fate decisions. The protein encoded by this gene is one of several ligands that activate Notch and related receptors. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC211925