

Product datasheet for **SC306220**

Jagged 2 (JAG2) (NM_145159) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Jagged 2 (JAG2) (NM_145159) Human Untagged Clone
Tag: Tag Free
Symbol: JAG2
Synonyms: HJ2; SER2
Vector: pCMV6 series

Fully Sequenced ORF: >NCBI ORF sequence for NM_145159, the custom clone sequence may differ by one or more nucleotides

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ATGCGGGCGCAGGGCCGGGGCGCCTTCCCGGCGGCTGCTGCTGCTGGCGCTCTGG
GTGCAGGCGGCGCGGCCCATGGCTATTTGAGCTGCAGCTGAGCGCGCTGCGGAACGTG
AACGGGGAGTGTGAGCGGCGCCTGCTGTGACGGCGACGGCCGACAACGCGCGCGGGG
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TCCTTTACCCTCATCGTGAGGCGCTGGGACTGGGACAACGATACCACCCGAATGAGGAG
CTGCTGATCGAGCGAGTGTGCGATGCCGCGATGATCAACCCGGAGGACCGCTGGAAGAGC
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TACACCTGCGACCACTACGGCAACAAGGCTGCATGGACGGTGGATGGCAAGGAGTGC
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GAGTGCAGGTGCAGCTACGGCTGGCAAGGAGGTTCTGCGATGAGTGTGTCCCCTACCCC
GGCTGCGTGCATGCGAGTTGTGTGGAGCCCTGGCAGTGCACACTGTGAGACCAACTGGGGC
GGCCTGCTGTGACAAAGACCTGAACTACTGTGGCAGCACCACCCCTGCACCAACGGA
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CAGCTGGACGTCAACGACTGTGCGGGCAGTGTGAGCATGGGGGCACCTGCAAGGACCTG
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GGCTTCCACTGCCACTGCCCCAGGGCTTCTCCGGGCCTCTGTGAGGTGGATGTGAC
CTTTGTGAGCCAAGCCCCTGCCGGAACGGCGCTCGCTGTATAACCTGGAGGGTGACTAT
TACTGCGCCTGCCCTGATGACTTTGGTGGCAAGAACTGCTCCGTGCCCGCGAGCCGTGC
CCTGGCGGGCCCTGCAGAGTGTGATGAGTGTGCGGGTGCAGCGGGGCCCTGGGATGCCT
GGCACAGCAGCTCCGGCGTGTGTGGCCCCATGGACGCTGCGTCAGCCAGCCAGGGGGC

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AACTTTTCCTGCATCTGTGACAGTGGCTTTACTGGCACCTACTGCCATGAGAACATTGAC
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TTCCCGATCCCTGCCACAGCCGCGGCCGCTGTACGACCTGGTCAATGACTTCTACTGT
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TACACCTGCAGCAACGGTGGCACCTGCTACGACAGCGGCGACACCTCCGCTGCGCTGC
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CGTGACTGCGACAAGGTGTGGTGGGATGGAAGCCTTGTCTGCTGGCCGGCCAGCCCGAG
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CGTGACCACGTGCCCCAGGGCACCACGGTGGGCGCCATTTGCTCCGGGATCCGCTCCCTG
CCAGCCACAAGGGCTGTGGCACGGGACCGCCTGCTGGTGTGCTTTGCGACCGGGCGTCC
TCGGGGCCAGTCCGCTGGAGGTGGCCGTGCTTTCAGCCCTGCCAGGGACCTGCCTGAC
AGCAGCCTGATCCAGGGCGCGCCACGCCATCGTGGCCGCCATACCCAGCGGGGGAAC
AGCTCACTGCTCCTGGCTGTACCGAGGTCAAGGTGGAGACGGTTGTTACGGGCGGCTCT
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GTGGTCTGTGCGTGTGGTGGACACGCAAGCGCAGGAAAGAGCGGGAGAGGAGCCGGCTG
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GAGCGGGCGGGGGCCACAAGGACGTGCTTACCAGTGAAGAACTTACGCGCGCCCG
CGCAGGGCGGACGAGGCGCTGCCCGGGCCGGCCACGCGGCCGTGAGGGAGGATGAG
GAGGACGAGGATCTGGGCCGCGGTGAGGAGGACTCCCTGGAGCGGAGAAGTTCTCTCA
CACAAATTCACCAAGATCCTGGCCGCTCGCCGGGAGGGCCGCCACTGGCCCTCAGGC
CCCAAAGTGGACAACCGCGCGTCAAGGAGCATCAATGAGGCCCGTACGCCGGCAAGGAG
TAG
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_145159
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_145159.1](#), [NP_660142.1](#)

RefSeq Size: 4963 bp

RefSeq ORF: 3603 bp

Locus ID: 3714

UniProt ID: [Q9Y219](#)

Cytogenetics: 14q32.33

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Notch signaling pathway

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]
Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1, resulting in a shorter protein (isoform b) than isoform a encoded by variant 1. Isoform b is also known as hJAG2.del-E6.