

Product datasheet for **RG210516**

Jagged1 (JAG1) (NM_000214) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Jagged1 (JAG1) (NM_000214) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Jagged1
Synonyms:	AGS; AGS1; AHD; AWS; CD339; DCHE; HJ1; JAGL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210516 representing NM_000214 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGTCCCCACGGACGCGGGCCGGTCCGGGCGCCCCCTAAGCCTCCTGCTCGCCCTGCTCTGTGCC
TGCGAGCCAAGGTGTGTGGGCCCTCGGGTCAGTTCGAGTTGGAGATCCTGTCCATGCAGAACGTGAACGG
GGAGCTGCAGAACGGAACTGCTGCGGGCGGCCCGGAACCCGGGAGACC GCAAGTGCACCCGCGACGAG
TGTGACACATACTCAAAGTGTGCTCAAGGAGTATCAGTCCC GCGTACGGCCGGGGGGCCCTGCAGT
TCGGCTCAGGGTCCACGCTGTATCGGGGCAACACCTCAACCTCAAGCCAGCCGCGGCAACGACCG
CAACCGCATCGTGTGCCTTTCAGTTTCGCTGGCCGAGTCTATACGTTGCTTGTGGAGCGTGGGAT
TCCAGTAAATGACACCGTTCAACCTGACAGTATTATTGAAAAGGCTTCTCACTCGGGCATGATCAACCCCA
GCCGGCAGTGGCAGACGCTGAAGCAGAACACGGGCGTTGCCACTTTGAGTATCAGATCCGCGTGACCTG
TGATGACTACTACTATGGCTTTGGCTGCAATAAGTTCTGCGGCCCCAGAGATGACTTCTTTGGGCACTAT
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GCCGACAAGGCTGAGTCCAAAGCATGGGTCTTGCAAACCTCCAGGTGACTGCAGGTGCCAGTACGGCTG
GCAAGGCTGTACTGTGATAAGTGCATCCACACCCGGGATGCGTCCACGGCATCTGTAATGAGCCCTGG
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TGTAAGGAGACCTCCCTGGGCTTTGAGTGTGAGTGTCCCGAGGCTGGACCGGCCCCACATGCTCTACAA
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TGTGCCAGCAACCCCTGTTTGAATGGGGTCACTGTCAGAATGAAATCAACAGATTCCAGTGTCTGTGTC
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GCTCTGTCTTAACTGTGGCTTGGATCTGTTGCTTGGTACGCGCTTCTACTGGTGCCTGCGGAAGCGGCG
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CCAAAATGTCTAAAATAAGGACACACAATTCTGAAGTAGAAGAGGACGACATGGACAAAACACCAGCAGAA
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ACAAAACACCCAACTGGACAAAACAACAGGACAACAGAGACTTGAAAGTGCCAGAGCTTAAACCGAA
TGGAGTACATCGTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG210516 representing NM_000214
 Red=Cloning site Green=Tags(s)

MRSRPRTRGRSGRPLSLLALLCALRAKVCASGQFELEILSMQNVNDELQNGNCCGGARNPGDRKCTRDE
 CDTYFKVCLKEYQSRVTAGGPCSFSGSTPVIGGNTFNLKASRGNDRNRIVLPFSFAWPRSYYTLLVEAWD
 SSNDTVQPDSEIEKASHSGMINPSRQWQTLKQNTGVAHFEYQIRVTCDDYYYGFCNKFRCRPRDDFFGHY
 ACDQNGNKTCEMGWMPPECNRAICRQGCSPKHGSKLPGDCRCQYGWQGLYCDKCIHPHGCYVHGICNEPW
 QCLCETNWGGQLCDKDLNYCGTHQPLNGGTCSNTGPDKYQCSCPEGYSGPNCEIAEHACLSDPCHNRGS
 CKETSLSGFECECSPGWTGPTCSTNIDDCSPNNSHGGTCQDLVNGFKCVCPPQWTGKTCQLDANECEAKP
 CVNAKSKNLIASYYCDCLPGWMGQNCIDININDCLGQCQNDASCRDLVNGYRCICPPGYAGDHCEERDIDE
 CASNPCLNGGHCQNEINRFQCLCPTGFSGNLCQLDIDYCEPNPCQNGAQCYNRASDYFCPCPEDEYEGKNC
 SHLKDHCRTTPCEVIDSCTVAMASNDTPEGVRYISSNVCGPHGKCKSQSGGKFTCDCNKGFTGTYCHENI
 NDCESNPCRNGGTCIDGVNSYKICSDGWEGAYCETNINDCSQNPCHNGGTCRDLVNDFYCDCKNGWKGK
 TCHSRDSQCDEATCNNGGTCYDEGDAFKCMCPGGWEGTTCNIARNSSCLPNPCHNGGTCVNGESFTVCV
 KEGWEGPICAQNTNDCSPHPCYNSGTCVDGDNWYRCECAPGFAGPDCRININECQSSPCAFGATCVDEIN
 GYRCVCPGHSKACQEVSGRPCITMGSVIRDGAKWDDDCNTCQCLNGRIACSKVWCGPRPCLLHKHSE
 CPSGQSCIPILDDQCFVHPCTGVGECRSSSLQPVKTKCTSDSYQDNCANITFTFNKEMMSPGLTTEHIC
 SELRNILILKNVSAEYSIYIACEPSPSANNEIHVAISAEDIRDDGNPIKEITDKIIDLVSKRDGNSSLIA
 AVAEVRVQRRPLKNRTDFLVPLSSVLTVAWICCLVAFYWCLRKRKPGSHTHSASEDNTTNNVREQLN
 QIKNPIEKHGANTVPIKDYENKNSKMSKIRTHNSEVEEDDMDKHQKARFAKQPAYTLVDREEKPPNGTL
 TKHPNWTNKQDNRDLESAQSLNRMEYIV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

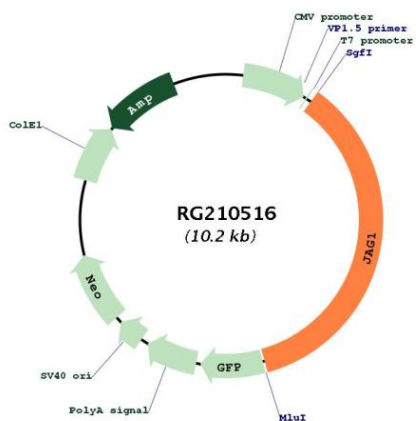


ACCN: NM_000214

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_000214.1 , NP_000205.1
RefSeq Size:	5896 bp
RefSeq ORF:	3657 bp
Locus ID:	182
UniProt ID:	P78504
Cytogenetics:	20p12.2
Domains:	VWC, DSL, EGF_CA, EGF, EGF, VWC_out
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Transmembrane
Protein Pathways:	Notch signaling pathway
Gene Summary:	The jagged 1 protein encoded by JAG1 is the human homolog of the Drosophila jagged protein. Human jagged 1 is the ligand for the receptor notch 1, the latter is involved in signaling processes. Mutations that alter the jagged 1 protein cause Alagille syndrome. Jagged 1 signalling through notch 1 has also been shown to play a role in hematopoiesis. [provided by RefSeq, Nov 2019]

Product images:



Circular map for RG210516