

## Datasheet for ABIN3094155 NOTCH3 Protein (AA 40-1643) (His tag)



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### 1 Image

#### Overview

Quantity:	1 mg
Target:	NOTCH3
Protein Characteristics:	AA 40-1643
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NOTCH3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

#### Product Details

Sequence:	<p>APPCLDGSPC ANGGRCTQLP SREAACLCPP GWVGERCQLE DPCHSGPCAG RGVCQSSVVA</p> <p>GTARFSCRCP RGFRGPDCSL PDPCLSSPCA HGARCSVGPD GRFLCSCPPG YQGRSCRSDV</p> <p>DECRVGPCR HGGTCLNTPG SFRCQCPAGY TGPLCENPAV PCAPSPCRNG GTCRQSGDLT</p> <p>YDCACLPGE GQNCENVDD CPGHRLNGG TCVDGVNTYN CQCPPEWTGQ FCTEDVDECQ</p> <p>LQPNACHNGG TCFNTLGGHS CVCVNGWTGE SCSQNIDDCA TAVCFHGATC HDRVASFYCA</p> <p>CPMGKTGLLC HLDDACVSNP CHEDAICDTN PVNGRAICTC PPGFTGGACD QDVDECSIGA</p> <p>NPCEHLGRCV NTQGSFLCQC GRGYTGPRCE TDVNECLSGP CRNQATCLDR IGQFTCICMA</p> <p>GFTGTycevd IDECQSSPCV NGGVCKDRVN GFSTCPSGF SGSTCQLDVD ECASTPCRNG</p> <p>AKCVDQPDGY ECRCAEGFEG TLCDRNVDDC SPDPCHHGRC VDGIAFSFCA CAPGYTGTRC</p> <p>ESQVDECRSQ PCRHGGKCLD LVDKYLRCRP SGTGTVNCEV NIDDCASNPC TFGVCRDGIN</p> <p>RYDCVCQPGF TGPLCNVEIN ECASSPCGEG GSCVDGENGF RCLCPPGSLP PLCLPPSHPC</p> <p>AHEPCSHGIC YDAPGGFRCV CEPGWSGPRC SQSLARDACE SQPCRAGGTC SSDGMGFHCT</p>
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CPPGVQGRQC ELLSPCTPNP CEHGGRCESA PGQLPVCSCP QGWQGPRCQQ DVDECAGPAP  
CGPHGICTNL AGSFSCDCHG GYTGPSCDQD INDCDPNPCL NGGSCQDGVG SFSCSCLPGF  
AGPRCARDVD ECLSNPCGPG TCTDHVASFT CTCPPGYGGF HCEQDLPCDS PSSCFNGGTC  
VDGVNSFSCL CRPGYTGAHC QHEADPCLSR PCLHGGVCSA AHPGFRCTCL ESFTGPQCQT  
LVDWCSRQPC QNGGRCVQTG AYCLCPPGWS GRLCDIRSLP CREAAAQIGV RLEQLCQAGG  
QCVDDEDSSHY CVCPEGRTGS HCEQEVDPC L AQCQHG GTC RGYMGGYMC CLPGYNGDNC  
EDDVDECASQ PCQHGGSCID LVARYLCSCP PGTLGVLCEI NEDDCGPGPP LDSGPRCLHN  
GTCVDLVGGF RCTCPPGYTG LRCEADINEC RSGACHAAHT RDCLQDPGGG FRCLCHAGFS  
GPRCQTVLSP CESQPCQHGG QCRPSPGPGG GLTFTCHCAQ PFWGPRCERV ARSCRELQCP  
VGVPCCQTPR GPRCACPPGL SGPSCRSFPG SPPGASNASC AAPCLHGGG CRPAPLAPFF  
RCACAQGTG PRCEAPAAAP EVSEEPRCPR AACQAKRGDQ RCDRECNSPG CGWDGGDCSL  
SVGDPWRQCE ALQCWRLFNN SRCDPACSSP ACLYDNFDCH AGGRERTCNP VYEKYCADHF  
ADGRCDQGCN TEECGWDGLD CASEVPALLA RGVLVLTVLL PPEELLRSSA DFLQRLSAIL  
RTSLRFRLDA HGQAMVFPYH RPSPGSEPPA RRELAPEVIG SVVMLEIDNR LCLQSPENDH  
CFPDAQSAAD YLGALSAVER LDFPYPLRDV RGEPLEPPEP SVPL

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human NOTCH3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its

## Product Details

specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:  1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.  2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

## Target Details

Target:	NOTCH3
Alternative Name:	NOTCH3 ( <a href="#">NOTCH3 Products</a> )
Background:	Functions as a receptor for membrane-bound ligands Jagged1, Jagged2 and Delta1 to regulate cell-fate determination. Upon ligand activation through the released notch intracellular domain (NICD) it forms a transcriptional activator complex with RBPJ/RBPSUH and activates genes of the enhancer of split locus. Affects the implementation of differentiation, proliferation and apoptotic programs (By similarity). {ECO:0000250}.
Molecular Weight:	169.7 kDa Including tag.
UniProt:	<a href="#">Q9UM47</a>
Pathways:	<a href="#">Notch Signaling</a>

## Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be

## Application Details

insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

## Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

## Images



**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process