

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# Product datasheet for TP762701

### Noggin (NOG) (NM\_005450) Human Recombinant Protein

## **Product data:**

Description:Purified recombinant protein of Human noggin (NGG), 28GIn-End, with N-terminal Hist ag, expressed in E.coli, 50ugSpecies:HumanExpression Host:E.coliExpression cDNA Cloon or AA Sequence:A DNA sequence encoding the region (28GIn-End) of NOGTag:N-HisPredicted MW:5.4 kDaConcentration:>0.05 ug/ul as determined by microplate BCA methodPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:SomM Tris, pH8.0, 8M UreaStorage:Store at -80°C after receiving vials.RefSeq:NP 005441Locus ID:921Q13253IsaleRefSeq Size:192IniProt ID:192RefSeq ORF:96Stonage:17422Storage:17422Storage:17422Storage:193Storage:194Storage:194Storage:194Storage:194	Product Type:	Recombinant Proteins
Expression Host:E. coliExpression cDNA ClossA DNA sequence encoding the region (28GIn-End) of NOG or AS equence:Tag:N-HisTag:N-HisPredicted MW:25.4 kDaConcentration:-0.05 ug/ul as determined by microplate BCA methodPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:OmM Tris, pH8.0, 8M UreaStorage:Stora 4.80°C after receiving vials.Stability:Stabe for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.Refseq:NP.05441Locus ID:0.13253Refseq Size:1892Yange Size:19.2Yange Size:19.2Yange Size:19.2Kefseq Size: </td <td>Description:</td> <td></td>	Description:	
Arsession cDNA ClossA DNA sequence encoding the region (28GIn-End) of NOGTag:N-HisPredicted MW:25.4 kDaConcentration:>0.05 ug/ul as determined by microplate BCA methodPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:05.0 mM Tris, pH8.0, 8M UreaStorage:Store at -80°C after receiving vials.Stability:Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.Refseq:NP 005441Locus ID:9241UniProt ID:013253Refseq Size:1892Yagenetics:17q22Befseq ORF:66	Species:	Human
or AA Sequence:Tag:N-HisPredicted MW:25.4 kDaConcentration:>0.05 ug/ul as determined by microplate BCA methodPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:S0mM Tris, pH8.0, 8M UreaStorage:Store at -80°C after receiving vials.Stability:Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 005441Locus ID:9241UniProt ID:013253RefSeq Size:1892Igagenetics:17q22Gytogenetics:696	Expression Host:	E. coli
Predicted MW:25.4 kDaPredicted MW:25.4 kDaConcentration:>0.05 ug/ul as determined by microplate BCA methodPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:S0mM Tris, pH8.0, 8M UreaStorage:Store at -80°C after receiving vials.Stability:Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 005441Locus ID:9241Q13253192RefSeq Size:1892Qtogenetics:17q22Genetics:696	•	A DNA sequence encoding the region (28GIn-End) of NOG
Concentration:>0.05 ug/ul as determined by microplate BCA methodPurity:>80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:50mM Tris, pH8.0, 8M UreaStorage:Store at -80°C after receiving vials.Stability:Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 005441Locus ID:013253RefSeq Size:1892Ages Size:1922Otygenetics:17q22Both Size:696	Tag:	N-His
Purity:> 80% as determined by SDS-PAGE and Coomassie blue stainingBuffer:S0mM Tris, pH8.0, 8M UreaStorage:Store at -80°C after receiving vials.Stability:Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 005441Locus ID:9241UniProt ID:Q13253RefSeq Size:1892Cytogenetics:17q22BefSeq ORF:696	Predicted MW:	25.4 kDa
Buffer:50mM Tris, pH8.0, 8M UreaStorage:Store at -80°C after receiving vials.Stability:Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 005441Locus ID:9241UniProt ID:Q13253RefSeq Size:1892Cytogenetics:17q22BefSeq ORF:696	Concentration:	>0.05 ug/ul as determined by microplate BCA method
Storage:Store at -80°C after receiving vials.Stability:Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 005441Locus ID:9241UniProt ID:013253RefSeq Size:1892Cytogenetics:17q22BefSeq ORF:696	Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability:Stable for at least 1 year from receipt of products under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 005441Locus ID:9241UniProt ID:Q13253RefSeq Size:18921 39217q22RefSeq ORF:696	Buffer:	50mM Tris, pH8.0, 8M Urea
conditions. Avoid repeated freeze-thaw cycles.RefSeq:NP 005441Locus ID:9241UniProt ID:Q13253RefSeq Size:1892Cytogenetics:17q22BefSeq ORF:696	Storage:	Store at -80°C after receiving vials.
Locus ID: 9241   UniProt ID: Q13253   RefSeq Size: 1892   Option 10 17q22   RefSeq ORF: 696	Stability:	
UniProt ID: Q13253   RefSeq Size: 1892   Cytogenetics: 17q22   RefSeq ORF: 696	RefSeq:	<u>NP 005441</u>
RefSeq Size: 1892   Cytogenetics: 17q22   RefSeq ORF: 696	Locus ID:	9241
Cytogenetics: 17q22   RefSeq ORF: 696	UniProt ID:	<u>Q13253</u>
RefSeq ORF:696	RefSeq Size:	1892
•	Cytogenetics:	17q22
Synonyms: SYM1; SYNS1; SYNS1A	RefSeq ORF:	696
	Synonyms:	SYM1; SYNS1; SYNS1A



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

#### Sourigene States (NOG) (NM\_005450) Human Recombinant Protein – TP762701

The secreted polypeptide, encoded by this gene, binds and inactivates members of the Summary: transforming growth factor-beta (TGF-beta) superfamily signaling proteins, such as bone morphogenetic protein-4 (BMP4). By diffusing through extracellular matrices more efficiently than members of the TGF-beta superfamily, this protein may have a principal role in creating morphogenic gradients. The protein appears to have pleiotropic effect, both early in development as well as in later stages. It was originally isolated from Xenopus based on its ability to restore normal dorsal-ventral body axis in embryos that had been artificially ventralized by UV treatment. The results of the mouse knockout of the ortholog suggest that it is involved in numerous developmental processes, such as neural tube fusion and joint formation. Recently, several dominant human NOG mutations in unrelated families with proximal symphalangism (SYM1) and multiple synostoses syndrome (SYNS1) were identified; both SYM1 and SYNS1 have multiple joint fusion as their principal feature, and map to the same region (17q22) as this gene. All of these mutations altered evolutionarily conserved amino acid residues. The amino acid sequence of this human gene is highly homologous to that of Xenopus, rat and mouse. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: TGF-beta signaling pathway

#### **Product images:**



Coomassie blue staining of purified NOG protein (Cat #TP762701). The protein was produced from E.coli.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2025 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US