

Product datasheet for TP318435

Huntingtin (HTT) (NM_002111) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human huntingtin (HTT), with C-terminal MYC/DDK tag, expressed in HEK293 cells, 20 µg
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	>RC218435 representing NM_002111 Red =Cloning site Green =Tags(s)

MATLEKLMKAFESLKSFQQQQQQQQQQQQQQQQQQQQQQQQPPPPPPPPPPPPQLPQPPPPQAQPLL
PQPQPP
PPPPPPPPGPAVAEELHRPKKELSATKKDRVNHCLTICENIVAQSVRNSPEFQKLLGIAMELFLLCSDD
AESDVRMVADECLNKVIKALMDSNLPRLQLELYKEIKKNGAPRSLRAALWRFELAHLVLPQKCRPYLVN
LLPCLTRTSKRPEESVQETLAAAVPKIMASFGNFANDNEIKVLLKAFIANLKSSSPTIRRTAAGSAVSIC
QHSRRTQYFYSWLLNVLLGLLVPVEDEHSTLLILGVLLTLRYLVPLLQQQVKDTSKGSFGVTRKEMEVS
PSAEQLVQVYELTLHHTQHGDHNVTGALELLQQLFRTPPELLQTLTAVGGIGQLTAAKEESGGRSRSG
SIVELIAGGGSSCSPVLSRKQKGVLLGEEEALEDDSESRSDVSSSALTASVKDEISGELAASSGVSTPG
SAGHDIITEQPRSQHTLQADSVDLASC DLTSSATDGDDEEDILSHSSSQSVAVSPDPAMD LNDGTQASSPI
SDSSQTTEGPD SAVTPSDSSEIVLDGTDNQYLG LQIGQPQDEDEEATGILPDEASEAFRNSSMALQQA
LLKNMSHCRQPSDSSVDKFLRDEATEPGDQENKPCRIGDIGQSTDDDSAPLVHCVRLLSASFLLTG
NVLVPPDRDVRVSVKALALSCVGAVALHPESFFSKLYKVPLDTTEYPEEQYVSDILNYIDHGD
PQVRGAT
AILCGTLICILSRSRFHVGDWMTIRTTLTGNTFSLADCIPLLRKTLKDESSVTCKLACTAVRNCVMSLC
SSSYSELGLQLIIDVLT LRNSSYWLVRTELETLAEIDFRLVSFLEAKAENLHRGAHHTYGLLKLQERVL
NNVVIHLLGDEDPRVRHVAAA SLIRLVPKLFYKCDQGQADPVVAVARDQSSVYLKLLMHETQPPSHFSVS
TITRIYRGYNLLPSITDVTMENNLSRVIAAVSHELITSTTRALTFGCCEALCLLSTAFPVCIWLSL
GWHCG
VPPLSASDESRSCTVGMATMILLSSAWFPLDL SAHQDALILAGNLLAASAPKSLRSSWASEEEANPA
ATKQEEVWPALGDRALVPMVEQLFSHLLKVINICAHVLDDVAPGPAIKAALPSLTNPPSLSPIRRK
GKEK
EPGEQASVPLSPKKGSEASAASRQSDTSGPVTTSKSSSLGSFYHLP SYLKLHDV LKATHANYKVT
LDLQ N
STEKFGGFLRSALD VLSQILELATLQDIGKVEEILGYLKS CFSREPM MATVCVQQLLKT
LFGTNLASQF
DGLSSNPSKSQGRAQRLGSSSVRPGLYHYCFMAYTHFTQALADASLRNMVQAEQENDTSGWFDV
LQK
VS
TQLKTNLTSVTKNRADKNAIHNHIRLFEPLVIKALKQYTTTTTCVQLQKQVLDLLAQLVQLRVNY
CLLDSD
QVFIGFVLKQFEYIEVGQFRESEAIIPNIFFLVLLSYERYHSKQIIGIPKIIQLCDGIMASGRKAV
THA
IPALQPIVHDLFVLRGTNKADAGKELETQKEVVSM LLRLIQYHQVLEMFILVLQ QCHKENEDK
WKRLSR



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QIADIILPMLAKQQMHIDSHEALGVLNLTLEILAPSSLRPVDMLLRSMFVTPNTMASVSTVQLWISGILA
 ILRVLISQSTEDIVLSRIQELSFSPYLISCTVINRLRDGDSTSTLEEHSSEKQIKNLPEETFSRFLQLV
 GILLEDIVTKQLKVMSEQQHTFYCQELGTLLMCLIHIFKSGMFRRITAAATRLFRSDGCGGSFYTLDSL
 NLRARSMITTHPALVLLWCQILLLVNHTDYRWWAEVQQTPKRHLSSTKLLSPQMSGEEEDSDLAAKLG
 M
 CNREIVRRGALILFCDYVCQNLHDEHLTWLIVNHIQDLISLSHEPPVQDFISAVHRNSAASGLFIQAIQ
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 AQLPMEELNRIQEYLQSSGLAQRHQRLYSLLDRFRLSTMQDSLSPSPVSSHPLDGDGHVSLTVSPDKD
 WYVHLVKSQCWTRSDSALLEGAELVNRIPAEDMNAFMNSEFNLSLLAPCLSLGMSEISGGQKSALFEAA
 REVTLARVSGTVQQLPAVHHVFQPELPAEPAAYWSKLNDFGDAALYQSLPTLARALAQYLWVSKLPSH
 LHLPEKEKDIVKFWATLEALSWHLIHEQIPLSLDLQAGLDCCLALQLPGLWSVVSSTEFVTHACSLI
 YCVHFILEAVAVQPGEQLLSPERRTNPKAISEEEEEVDPNTQNPKYITAAACEMVAEMVESLQSVLALGH
 KRNSGVP AFLTPLLRNIIISLARLPLVNSYTRVPPVWKLGWSPKPGGDFGTAFPEIPVEFLQEKEVFKE
 FIYRINTLGWTSRTQFEETWATLLGVLVTQPLVMEQEEESPPEEDTERTQINVLAVQAITSVLVSAMTVPV
 AGNPAVSCLEQQPRNKPLKALDTRFGRKLSIIRGIVEQEIQAMVSKRENIATHHLYQAWDPVPSLSPATT
 GALISHEKLLLQINPERELGSMSYKLGQVSIHSHVWLGNSITPLREEEWDEEEEEADAPAPSSPPTSPVN
 SRKHRAGVDIHSCSQFLELYSRWILPSSSAR RTPAILISEVRSLLVSDLFTERNQFELMYVTLELR
 RVHPSEDEILAQYLVPATCKAAAVLGMDKAVAEPVSRLLLESTRSSHLP SRV GALHGVLYVLECDLLDDT
 AKQLIPVISDYLLSNLKGIAHCVNIHSQQHVLVMCATAFYLIENYPLDVGPEFSASIIQMGVMLSGSEE
 STPSIYHCALRGLERLLLSEQLSRLDAESLVKLSVDRVNVHSPHRAMAALGLMLTCMYTGKEKVS PGR T
 SDPNPAAPDSESIVAMERSVLFDRIRKGFPCEARVVARILPQFLDDFFPPQDIMNKVIGEFLSNQOPY
 PQFMATVVYKVFQTLHSTGQSSMVRDWVMLSLSNFTQRAPVAMATWSLSCFFVSASTSPWVAAILPHVIS
 RMGKLEQVDVNLFLCLVATDFYRHQIEEELDRRAFQSVLEVAAPGSPYHRLLTCLRNVHKV TTC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	347.7 kDa
Concentration:	>0.1 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002102
Locus ID:	3064

UniProt ID: [P42858](#)

RefSeq Size: 13481

Cytogenetics: 4p16.3

RefSeq ORF: 9432

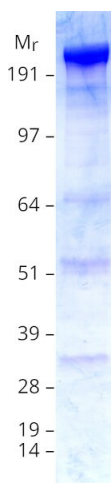
Synonyms: HD; IT15; LOMARS

Summary: Huntingtin is a disease gene linked to Huntington's disease, a neurodegenerative disorder characterized by loss of striatal neurons. This is thought to be caused by an expanded, unstable trinucleotide repeat in the huntingtin gene, which translates as a polyglutamine repeat in the protein product. A fairly broad range of trinucleotide repeats (9-35) has been identified in normal controls, and repeat numbers in excess of 40 have been described as pathological. The huntingtin locus is large, spanning 180 kb and consisting of 67 exons. The huntingtin gene is widely expressed and is required for normal development. It is expressed as 2 alternatively polyadenylated forms displaying different relative abundance in various fetal and adult tissues. The larger transcript is approximately 13.7 kb and is expressed predominantly in adult and fetal brain whereas the smaller transcript of approximately 10.3 kb is more widely expressed. The genetic defect leading to Huntington's disease may not necessarily eliminate transcription, but may confer a new property on the mRNA or alter the function of the protein. One candidate is the huntingtin-associated protein-1, highly expressed in brain, which has increased affinity for huntingtin protein with expanded polyglutamine repeats. This gene contains an upstream open reading frame in the 5' UTR that inhibits expression of the huntingtin gene product through translational repression. [provided by RefSeq, Jul 2016]

Protein Families: Druggable Genome

Protein Pathways: Huntington's disease

Product images:



Coomassie blue staining of purified HTT protein (Cat# TP318435). The protein was produced from HEK293T cells transfected with HTT cDNA clone (Cat# [RC218435]) using MegaTran 2.0 (Cat# [TT210002]).