

Recombinant Human OPHN1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. OPHN1-4164H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	OPHN1 MS Standard C13 and N15-labeled recombinant protein (NP_002538) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a Rho-GTPase-activating protein that promotes GTP hydrolysis of Rho subfamily members. Rho proteins are important mediators of intracellular signal transduction, which affects cell migration and cell morphogenesis. Mutations in this gene are responsible for OPHN1-related X-linked cognitive disability with cerebellar hypoplasia and distinctive facial dysmorphisms.
Molecular Mass	91.5 kDa
AA Sequence	MGHPPLEFSDCYLDSPDFRERLKCYEQELERTNKFIDVIKDGNALISAMRNYSSAV QKFSQTLQSFQFDFIGDTLTDDEINIAESFKEFAELLNEVENERMMMVMHNASDLLIKP LENFRKEQIGFTKERKKKFEKDGGERFYSLDRHLHLSSKKKESQLQEADLQVDKERH NFFESSLDYVYQIQEVQESKKFNIVEPVLAFHLHSLFISNSLTVELTQDFLPYKQQLQLS LQNTRNHFSSTREEMEELKKRMKEAPQTCKLPGQPTIEGYLYTQEKWALGISWVKY YCQYEKETKTLTMTPEQKPGAKQGPLDLTLKYCVRRTESIDKRFCFDIETNERPG TITLQALSEANRRLWMEAMDGKEPIYHSPITKQQEMELNEVGFKFVRKCINIIETKGIK TEGLYRTVGSNIQVQKLLNAFFDPKCPGDVDFHNSDWDIKTITSSLKFYLRNLSEPV

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MTYRLHKELVSAAKSDNLDYRLGAIHSLVYKLPEKNREMLELLIRHLVNVCEHSKENL
 MTPSNMGVIFGPTLMRAQEDTVAAMMNIKFQNIVVEILIEHFGKIYLGPPPEESAAPPV
 PPPRVTARRHKPITISKRLLRERTVFYTSSLDESEDEIQHQTTPNGTITSSIEPPKPPQH
 PKLPIQRSGETDPGRKSPSRPILDGKLEPCPEVDVGKLVSRQLQDGGTKITPKATNGP
 MPGSGPTKTPSFHIKRPAPRPLAHHKEGDADSFASKVRPPGEKPTIIRPPVRPPDPPC
 RAATPQKPEPKPDIVAGNAGEITSSVVASRTRFFETASRKTGSSQGRLPGDESTRTTR
 PLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name OPHN1 oligophrenin 1 [Homo sapiens (human)]

Official Symbol OPHN1

Synonyms OPHN1; oligophrenin 1; mental retardation, X linked 60, MRX60; oligophrenin-1; ARHGAP41; OPN1; mental retardation, X-linked 60; oligophrenin-1, Rho-GTPase activating protein; MRX60;

Gene ID 4983

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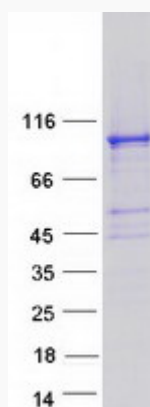
mRNA Refseq NM_002547

Protein Refseq NP_002538

MIM 300127

UniProt ID O60890

SDS-PAGE



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