Datasheet for ABIN7547855

# FBXL17 Protein (AA 1-701) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | FBXL17 |
| Protein Characteristics: | AA 1-701 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This FBXL17 protein is labelled with His tag. |

## Product Details

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| Purpose: | Custom-made recombinant FBXL17 Protein expressed in mammalian cells. |
| Sequence: | MGHLLSKEPR NRPSQKRPRC CSWCRRRRPL LRLPRRTPAK VPPQPAAPRS RDCFFRGPCM LCFIVHSPGA PAPAGPEEEP PLSPPPRDGA YAAASSSQHL ARRYAALAAE DCAAAARRFL LSSAAAAAAA AASASSPASC CKELGLAAAA AWEQQGRSLF LASLGPVRFL GPPAAVQLFR GPTPSPAELP TPPEMVCKRK GAGVPACTPC KQPRCGGGGC GGGGGGGGGG GPAGGGASPP RPPDAGCCQA PEQPPQPLCP PPSSPTSEGA PTEAGGDAVR AGGTAPLSAQ QQHECGDADC RESPENPCDC HREPPPETPD INQLPPSILL KIFSNLSLDE RCLSASLVCK YWRDLCLDFQ FWKQLDLSSR QQVTDELLEK IASRSQNIIE INISDCRSMS DNGVCVLAFK CPGLLRYTAY RCKQLSDTSI IAVASHCPLL QKVHVGNQDK LTDEGLKQLG SKCRELKDIH FGQCYKISDE GMIVIAKGCL KLQRIYMQEN KLVTDQSVKA FAEHCPELQY VGFMGCSVTS KGVIHLTKLR NLSSLDLRHI TELDNETVME IVKRCKNLSS LNLCLNWIIN DRCVEVIAKE GQNLKELYLV SCKITDYALI AIGRYSMTIE TVDVGWCKEI TDQGATLIAQ SSKSLRYLGL MRCDKVNEVT VEQLVQQYPH ITFSTVLQDC KRTLERAYQM GWTPNMSAAS S **Sequence without tag. The** |

## Product Details

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| | **proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.** |
| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer. |
| Characteristics: | Key Benefits:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalian cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>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. |
| Purity: | > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
| Grade: | custom-made |

## Target Details

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| Target: | FBXL17 |
| Alternative Name: | FBXL17 (FBXL17 Products) |
| Background: | F-box/LRR-repeat protein 17 (F-box and leucine-rich repeat protein 17) (F-box only protein 13),FUNCTION: Substrate-recognition component of the SCF(FBXL17) E3 ubiquitin ligase complex, a key component of a quality control pathway required to ensure functional dimerization of BTB domain-containing proteins (dimerization quality control, DQC) (PubMed:30190310). FBXL17 specifically recognizes and binds a conserved degron of non-consecutive residues present at the interface of BTB dimers of aberrant composition: aberrant BTB dimer are then ubiquitinated by the SCF(FBXL17) complex and degraded by the proteasome (PubMed:30190310). The ability of the SCF(FBXL17) complex to eliminate |

## Target Details

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| | compromised BTB dimers is required for the differentiation and survival of neural crest and neuronal cells (By similarity). The SCF(FBXL17) complex mediates ubiquitination and degradation of BACH1 (PubMed:24035498, PubMed:30190310). The SCF(FBXL17) complex is also involved in the regulation of the hedgehog/smoothened (Hh) signaling pathway by mediating the ubiquitination and degradation of SUFU, allowing the release of GLI1 from SUFU for proper Hh signal transduction (PubMed:27234298). The SCF(FBXL17) complex mediates ubiquitination and degradation of PRMT1 (By similarity). {ECO:0000250\|UniProtKB:B1H1X1, ECO:0000250\|UniProtKB:Q9QZN1, ECO:0000269\|PubMed:24035498, ECO:0000269\|PubMed:27234298, ECO:0000269\|PubMed:30190310}. |
| Molecular Weight: | 75.7 kDa |
| UniProt: | Q9UF56 |

## Application Details

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| Application Notes: | We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | The buffer composition 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: | 12 months |