

## Product datasheet for TP302693L

### C1orf41 (HSPB11) (NM\_016126) Human Recombinant Protein

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Recombinant protein of human heat shock protein family B (small), member 11 (HSPB11), 1 mg   |
| Species:                              | Human  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | >RC202693 protein sequence<br>Red=Cloning site Green=Tags(s)   |
|                                       | MRKIDLCLSSEGSEVILATSSDEKHPPENIIDGNPETFWTTTGMFPQEFII CFHKHVRIERLVIQSYFVQ<br>TLKIEKSTSKEPVDFEQWIEKDLVHTEGQLQNEEIVAHDG SATYLRFIIVSAFDHFASVHSVSAEGTVVS<br>NLSS |
|                                       | TRTRPLEQKLISEEDLAANDILDYKDDDDKV  |
| Tag:                                  | C-Myc/DDK  |
| Predicted MW:                         | 16.1 kDa   |
| Concentration:                        | >0.05 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:                               | <a href="#">NP_057210</a>  |
| Locus ID:                             | 51668  |
| UniProt ID:                           | <a href="#">Q9Y547</a>   |



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RefSeq Size: 601

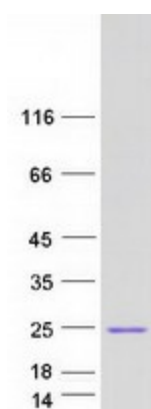
Cytogenetics: 1p32.3

RefSeq ORF: 432

Synonyms: C1orf41; FAP232; HSPCO34; IFT25; PP25

**Summary:** Component of the IFT complex B required for sonic hedgehog/SHH signaling. May mediate transport of SHH components: required for the export of SMO and PTCH1 receptors out of the cilium and the accumulation of GLI2 at the ciliary tip in response to activation of the SHH pathway, suggesting it is involved in the dynamic transport of SHH signaling molecules within the cilium. Not required for ciliary assembly. Its role in intraflagellar transport is mainly seen in tissues rich in ciliated cells such as kidney and testis. Essential for male fertility, spermiogenesis and sperm flagella formation. Plays a role in the early development of the kidney. May be involved in the regulation of ureteric bud initiation (By similarity). [UniProtKB/Swiss-Prot Function]

### Product images:



Coomassie blue staining of purified HSPB11 protein (Cat# [TP302693]). The protein was produced from HEK293T cells transfected with HSPB11 cDNA clone (Cat# [RC202693]) using MegaTran 2.0 (Cat# [TT210002]).