

## Product datasheet for TP521163

### Bbs4 (NM\_175325) Mouse Recombinant Protein

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Purified recombinant protein of Mouse Bardet-Biedl syndrome 4 (human) (Bbs4), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug  |
| Species:                              | Mouse  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | >MR221163 protein sequence<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)   |
|                                       | <p>MAEVKLG MKTQVPASVESQKPRSKKAPDFPIVEKQNWLIHLHYIRKDY EACKAVIKEQLQETQGLCEYAI<br/>YVQALIFRLEGNIQESLELFQTCAVLSPQCADNLKQVARSLFLLGKHKAATEVYNEAAKLNQKDWEICHN<br/>LGVCYTYLKQFNKAQDQLHSALQLNKHDLTYIMLGKIHLLQGDLDAIEIYKKAVEFSPENTELLTTLGL<br/>LYLQLGVYQKAFEHLGNALTYDPANYKAILAAGSMMQTHGDFDVALTKYRVVACAIPSPPLWNNIGMCF<br/>FGKKKYVAAISCLKRANYLAPFDWKILYNLGLVHLMQYASAFHFLSAAINFQPKMGELYMLLAVALTN<br/>LEDIENARRAYVEAVRLDKCNPLVNLNYAVLLYNQGEKKSALAQYQEMEKVNFLKDNSPLEFDSEMVEM<br/>AQKLG AALQVGEALVWTKPVKDPKTKHRTNSGSKSATLQQPLGSIQALGQAMSSAAAYRKILSGAVGAQL<br/>PKPPSLPEPEPEPTVEASPTASEQKKEK</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p> |
| Tag:                                  | C-MYC/DDK  |
| Predicted MW:                         | 58.3 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   |
| 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 after receiving vials.  |
| 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:                               | <u><a href="#">NP_780534</a></u>   |



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Locus ID: 102774

UniProt ID: [Q8C1Z7](#), [A6H669](#)

RefSeq Size: 2542

Cytogenetics: 9 32.01 cM

RefSeq ORF: 1563

Synonyms: AW537059; AW742241; D9Ertd464e

**Summary:** The BBSome complex is thought to function as a coat complex required for sorting of specific membrane proteins to the primary cilia. The BBSome complex is required for ciliogenesis but is dispensable for centriolar satellite function. This ciliogenic function is mediated in part by the Rab8 GDP/GTP exchange factor, which localizes to the basal body and contacts the BBSome. Rab8(GTP) enters the primary cilium and promotes extension of the ciliary membrane. Firstly the BBSome associates with the ciliary membrane and binds to RAB3IP/Rabin8, the guanosyl exchange factor (GEF) for Rab8 and then the Rab8-GTP localizes to the cilium and promotes docking and fusion of carrier vesicles to the base of the ciliary membrane. The BBSome complex, together with the LTZL1, controls SMO ciliary trafficking and contributes to the sonic hedgehog (SHH) pathway regulation. Required for proper BBSome complex assembly and its ciliary localization. Required for microtubule anchoring at the centrosome but not for microtubule nucleation. May be required for the dynein-mediated transport of pericentriolar proteins to the centrosome (By similarity).[UniProtKB/Swiss-Prot Function]