

# Recombinant Full Length Human RBP3 Protein, C-Flag-tagged

**Cat. No.** RBP3-102HFL    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

Recombinant Full Length Human RBP3 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

### Species

Human

### Source

Mammalian Cells

### Description

Interphotoreceptor retinol-binding protein is a large glycoprotein known to bind retinoids and found primarily in the interphotoreceptor matrix of the retina between the retinal pigment epithelium and the photoreceptor cells. It is thought to transport retinoids between the retinal pigment epithelium and the photoreceptors, a critical role in the visual process. The human IRBP gene is approximately 9.5 kbp in length and consists of four exons separated by three introns. The introns are 1.6-1.9 kbp long. The gene is transcribed by photoreceptor and retinoblastoma cells into an approximately 4.3-kilobase mRNA that is translated and processed into a glycosylated protein of 135,000 Da. The amino acid sequence of human IRBP can be divided into four contiguous homology domains with 33-38% identity, suggesting a series of gene duplication events. In the gene, the boundaries of these domains are not defined by exon-intron junctions, as might have been expected. The first three homology domains and part of the fourth are all encoded by the first large exon, which is 3,180 base pairs long. The remainder of the fourth domain is encoded in the last three exons, which are 191, 143, and approximately 740 base pairs long, respectively.

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>           | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b> | 133.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>AA Sequence</b>    | <p>MMREWVLLMSVLLCGLAGPThLFQPSLVLDMAKVLLDNYCFPENLLGMQEAIQQA<br/> KSHEILSISDPQTL ASVLTAGVQSSLNDPRLVISYEPSTPEPPPQVPALTSLEEELLA<br/> WLQRGLRHEVLEGNVGYLRVDSVPG QEVLSMMGEFLVAHVWGNLMGTSALVLDL<br/> RHCTGGQVSGIPYIISYLHPGNTILHVDTIYNRPSNTTTEI WTL PQVLGERYGADKDV<br/> VVLTSSTQTRGVAEDIAHILKQMRRAIVVGERTGGGALDLRKL RIGESDFFFTV PVSR<br/> SLGPLGGGSQTWEGSGVLPCVGT PAEQALEKALAILT LRSALPGVVHCLQEVLKDY<br/> YTLVDRVPTL LQHLASMD FSTVVSEEDLVTKLNAGLQAASEDPRLLVRAIGPTETPS<br/> WPAPDAAAEDSPGVAPELPEDEA IRQALVDSVFQVSVLPGNVGYLRFDSFADASVL<br/> GVLAPYVLRQVWEPLQDTEHLIMDLRHNP GGPSSAVP LLLSYFQGPEAGPVHLFTT<br/> YDRRTNITQE HFSHMELPGPRYSTQRGVYLLTSHRTATAAEFAFLMQSLG WATLV<br/> GEITAGNLLHTRTVPLLDTP EGSALATVPVLT FIDNHGEAWLGGGVVPDAIVLAEAL<br/> DKAQEVL EFHQSLGALVEGTGHLLEAHYARPEVVGQTSALLRAKLAQGAYRTAVDL<br/> ESLASQLTADLQEVSGDHRLL VFHSPGELVVEEAPPPPPAVPSPEELTYLIEALFKT<br/> EVLPGQLGYLRFDAMAELET VKAVGPQLVRLVWQ QLVDTAALVIDLRYNPGSYSTAI<br/> PLLCSYFFAEPRQHLYSVFDRATSKVTEVWTL PQVAGQRYGSHKDL YILMSHTSG<br/> SAAEFAHTMQDLQRATVIGEPTAGGALSVGIYQVGSSPLYASMPTQMAMSATTGK<br/> AWDLA GVEPDITVPMSEALSIAQDIVALRAKVPTVLQTAGKLVADNYASAELGAKMA<br/> TKLSGLQSRYSRVTSEVA LAEILGADLQMLSGD PHLKAAHIPENAKDRIPGIVPMQIP<br/> SPEVFEELIKFSFHTNVLEDNIGYLRFD MF GDGELLTQVSRLLEHIWKKIMHTDAMI<br/> DMRFNIGGPTSSIPILCSYFFDEGPPVLLDKIYSRPDDSVS ELWTHAQVVGERYGSK<br/> KSMVILTSSVTAGTAE EFTYIMKRLGRALVIGEVTSGGCQPPQTYHVD DTLNLYL<br/> TIPTARSGASDGSSWEGVGVTPHVVPAAEEALARAK EMLQHNQLRVKRSPGLQD<br/> HLTRTRPLEQKLISEEDLAANDILDYKDDDDKV</p> |
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

|                         |                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                      |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Protein Families</b> | Secreted Protein                                                                                                                              |
| <b>Full Length</b>      | Full L.                                                                                                                                       |

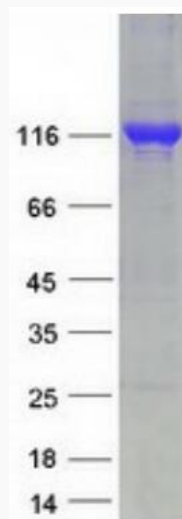
## GENE INFORMATION

|                        |                                                         |
|------------------------|---------------------------------------------------------|
| <b>Gene Name</b>       | RBP3 retinol binding protein 3 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | RBP3                                                    |
| <b>Synonyms</b>        | IRBP; RBPI; RP66; D10S64; D10S65; D10S66                |
| <b>Gene ID</b>         | 5949                                                    |
| <b>mRNA Refseq</b>     | NM_002900.3                                             |
| <b>Protein Refseq</b>  | NP_002891.1                                             |
| <b>MIM</b>             | 180290                                                  |
| <b>UniProt ID</b>      | P10745                                                  |

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Coomassie blue staining of purified RBP3 protein.

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