

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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 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	133.4 kDa
AA Sequence	MMREWVLLMSVLLCGLAGPTHLFQPSLVLDMAKVLLDNYCFPENLLGMQEAIQQA KSHEILSISDPQTL ASVLTAGVQSSLNDPRLVISYEPSTPEPPPQVPALTSLEEELLA WLQRGLRHEVLEGNVGYLRVDSVPG QEVLSMMGEFLVAHVWGNLMGTSALVLDL RHCTGGQVSGIPYIISYLHPGNTILHVDTIYNRPSNTTTEI WTL PQVLGERYGADKDV VVL TSSQTRGVAEDIAHILKQMRRAIVVGERTGGGALDLRKL RIGESDFFFTV PVSR SLGPLGGGSQTWEGSGVLPCVGT PAEQALEKALAIL TLR SALPGVVHCLQEVLKDY YTLVDRVPTL LQHLASMD FSTV VSEEDLVTKLNAGLQAASEDPRLLVRAIGPTETPS WPAPDAAAEDSPGVAPELPEDEA IRQALVDSVFQVSVLPGNVGYLRFDSFADASVL GVLAPYVLRQVWEPLQDTEHLIMDLRHNP GGPSSAVP LLLSYFQGPEAGPVHLFTT YDRRTNITQE HFSHMELPGPRYSTQRGVYLLTSHRTATAAEFAFLMQSLG WATLV GEITAGNLLHTRTVPLLDTP EGSAL TVPVLTFIDNHGEAWLGGGVVPDAIVLAE EAL DKAQEVL EFHQSLGALVEGTGHLLEAHYARPEVVGQTSALLRAKLAQGAYRTAVDL ESLASQLTADLQEVSGDHRLL VFHSPGELVVEEAPPPPAVPSPEELTYLIEALFKT EVLPGQLGYLRFDAMAELET VKAVGPQLVRLVWQ QLVDTAALVIDLRYNPGSYSTAI PLLCSYFFEAEP RQHLYSVFDRATSKVTEVWTL PQVAGQRYGSHKDL YILMSHTSG SAAEFAHTMQDLQRATVIGEPTAGGALSVGIYQVGSSPLYASMPTQMAMSATTGK AWDLA GVEPDITVPMSEALSIAQDIVALRAKVPTVLQTAGKLVADNYASAELGAKMA TKLSGLQSRYSRV TSEVA LAEILGADLQMLSGD PHLKAAHIPENAKDRIPGIVPMQIP SPEVFEELIKFSFHTNVLEDNIGYLRFD MF GDGELLTQVSRLLEHIWKKIMHTDAMI DMRFNIGGPTSSIPILCSYFFDEGPPVLLDKIYSRPDDSVS ELWTHAQVVGERYGSK KSMVILTSSVTAGTAE EFTYIMKRLGRALVIGEV TSGGCQPPQTYHVDDTNLYL TIPTAR SVGASDGSSWEGVGVT PHVVVPAEEALARAK EMLQHNQLRVKRSPGLQD HLTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.

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

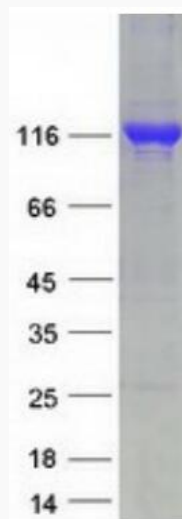
GENE INFORMATION

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

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Coomassie blue staining of purified RBP3 protein.

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