

Recombinant Human RUVBL2, His-tagged

Cat. No. RUVBL2-30950TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-463 of Human Reptin/TIP49B/RUVB2 with a N terminal His tag; MWt 58 ;
Species	Human
Source	E.coli
ProteinLength	1-463 a.a.
Description	This gene encodes the second human homologue of the bacterial RuvB gene. Bacterial RuvB protein is a DNA helicase essential for homologous recombination and DNA double-strand break repair. Functional analysis showed that this gene product has both ATPase and DNA helicase activities. This gene is physically linked to the CGB/LHB gene cluster on chromosome 19q13.3, and is very close (55 nt) to the LHB gene, in the opposite orientation.
Conjugation	HIS
Tissue specificity	Ubiquitously expressed. Highly expressed in testis and thymus.
Form	Lyophilised:Reconstitution with 139 µl aqua dest.
Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MATVTATTKVPEIRDVTRIERIGAHSHIRGLGLDDALEPR QASQGMVGLAARRAAG VVLEMIREGKIAGRAVLIAGQ PGTGKTAIAMGMAQALGPDTPFTAIAGSEIFSLEMSK T EALTQAFRRSIGVRIKEETEIIIEGEVVEIQIDRPATGTGS KVGKLTLLKTTMETIYDL GTKMIESLTKDKVQAGDVIT IDKATGKISKLGRSFTRARDYDAMGSQTKFVQCPDGE L QKRKEVVHTVSLHEIDVINSRTQGFLALFSGDTGEIKS EVREQINAKVAEWREEGK AEIIPGVLFIDEVHMLDIESFS FLNRALES DMAPVLIMATNRGITRIRGTSYQSPHGIPI DLLDRLLIVSTTPYSEKDTKQILRIRCEEEDVEMSEDA YTVLTRIGLETSLRYAIQLITA ASLVCRKRKGTEVQVDDIKRVYSLFLDESRSTQYMKEYQDAFLFNLKGETMDTS
Sequence Similarities	Belongs to the ruvB family.
Full Length	Full L.
GENE INFORMATION	
Gene Name	RUVBL2 RuvB-like 2 (E. coli) [Homo sapiens]
Official Symbol	RUVBL2
Synonyms	RUVBL2; RuvB-like 2 (E. coli); RuvB (E coli homolog) like 2; ruvB-like 2; ECP51; INO80 complex subunit J; INO80J; reptin; Reptin52; Rvb2; RVB2; TIH2; TIP48; TIP49b;
Gene ID	10856
mRNA Refseq	NM_006666
Protein Refseq	NP_006657

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MIM	604788
Uniprot ID	Q9Y230
Chromosome Location	19q13.3
Pathway	ATF-2 transcription factor network, organism-specific biosystem; C-MYC pathway, organism-specific biosystem; Chromosome Maintenance, organism-specific biosystem; Extension of Telomeres, organism-specific biosystem; Regulation of Wnt-mediated beta catenin signaling and target gene transcription, organism-specific biosystem;
Function	ATP binding; ATP-dependent DNA helicase activity; contributes_to ATPase activity; DNA helicase activity; damaged DNA binding;

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