

Datasheet for ABIN3095101

RPRD2 Protein (AA 1-1461) (Strep Tag)**1** Image[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	RPRD2
Protein Characteristics:	AA 1-1461
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RPRD2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MAAGGGGGSS KASSSSASSA GALESSLDRK FQSVTNTMES IQGLSSWCIE NKKHHSTIVY HWMKWLRRSA YPHRLNLFYL ANDVIQNCKR KNAIIFRESF ADVLPEAAAL VKDPSVSKSV ERIFKIWEDR NVYPEEMIVA LREALSTTFK TQQLKENLN KQPNKQWKKS QTSTNPKAAL KSKIVAEFRS QALIEELLLY KRSEDQIELK EKQLSTMRVD VCSTETLKCL KDKTGGKKFS KEFEEASSKL EEFVNGLDKQ VKNGPSLTEA LENAGIFYEA QYKEVKVVAN AYKTFANRVN NLKKKLDQLK STLPDPEESP VPSPSMDAPS PTGSESPFQG MGGEESQSPT MESEKSATPE PVTDNRDVED MELSDVEDDG SKIIVEDRKE KPAEKSAVST SVPTKPTENI SKASSCTPVP VTMTATPPLP KPVNTSLSPS PALALPNLAN VDLAKISSIL SSLTSVMKNT GVSPASRPSP GTPTSPSNLT SGLKTPAPAT TTSHNPLANI LSKVEITPES ILSALSKTQT QSAPALQGLS SLLQSVTGNP VPASEAASQS TSASPANTTV STIKGRNLPS SAQPFIPKSF NYSPNSSTSE VSSTSASKAS IGQSPGLPST TFKLPNSNLG FTATHNTSPA APTEVTICQ SSEVSKPKLE SESTSPSLEM KIHNFLKGNP GFSGNLNLNIP ILSSLGSSAP SESHPSDFQR GPTSTSIDNI
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DGTPVRDERS GTPTQDEMMD KPTSSSVDTM SLLSKIISPG SSTPSSTRSP PPGRDESYPR
ELNSVSTYR PFGLGSESPY KQPSDGMERP SSLMDSSQEK FYPDTSFQED EDYRDFEYSG
PPPSAMMNLE KKPAKSILKS SKLSDTTEYQ PILSSYSHRA QEFGVKSAFP PSVRALLDSS
ENCURLSSSP GLFGAFSVRG NEPGSDRSPS PSKNDSSFPT DSNHNSLSQS TTGHLSLPQK
QYPDSPHPVP HRSLFSPQNT LAAPTGHPT SGVEKVLAST ISTTSTIEFK NMLKNASRKP
SDDKHFGQAP SKGTPSDGVS LSNLTQPSLT ATDQQQEEH YRIETRVSSS CLDLPDSTEE
KGAPIETLGY HSASNRMSG EPIQTVESIR VPGKGNRGHG REASRVGWFD LSTSGSSFDN
GPSSASELAS LGGGGSGGLT GFKTAPYKER APQFQESVGS FRSNSFNSTF EHHLPSPLE
HGTPFQREPV GPSSAPPVPP KDHGGIFSRD APTHLPSVDL SNPFTKEAAL AHAAPPPPPG
EHSGIPFPTP PTPPPPPGEHS SSGSGVPFS TTPPPPPPV D HSGVVPFPAP PLAHEGVAGA
VAVFPKDHSS LLQGTAEHF GVLGPRDHG GPTQRDLNGP GLSRVRESLT LPSHSLEHLG
PPHGGGGGGG SNSSGPPLG PSHRDTISRS GIILRSPRPD FRPREPFLSR DPFHSLKRPR
PPFARGPPFF APKRPFFPR Y

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for

Product Details

protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	RPRD2
Alternative Name:	RPRD2 (RPRD2 Products)
Background:	Regulation of nuclear pre-mRNA domain-containing protein 2
Molecular Weight:	156.0 kDa
UniProt:	Q5VT52

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a
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Application Details

	guarantee though.
Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process