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Datasheet for ABIN3135532 SIX2 Protein (AA 1-296) (His tag)

Image



Overview

Quantity:	1 mg
Target:	SIX2
Protein Characteristics:	AA 1-296
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SIX2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MSMLPTFGFT QEQVACVCEV LQQGGNIERL GRFLWSLPAC EHLHKNESVL KAKAVVAFHR
	GNFRELYKIL ESHQFSPHNH AKLQQLWLKA HYIEAEKLRG RPLGAVGKYR VRRKFPLPRS
	IWDGEETSYC FKEKSRSVLR EWYAHNPYPS PREKRELAEA TGLTTTQVSN WFKNRRQRDR
	AAEAKERENS ENSNSSSHNP LASSLNGSGK SVLGSSEDEK TPSGTPDHSS SSPALLLSPP
	PPPGLPSLHS LGHPPGPSAV PVPVPGGGGA DPLQHHHSLQ DSILNPMSAN LVDLGS
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Six2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
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	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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	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.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	1. In a first purification step, the protein is purified from the cleared cell lysate using three
	different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate
	fractions are analyzed by SDS-PAGE.
	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:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	SIX2
Alternative Name:	Six2 (SIX2 Products)
Background:	Transcription factor that plays an important role in the development of several organs, including
	kidney, skull and stomach. During kidney development, maintains cap mesenchyme multipotent

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	nephron progenitor cells in an undifferentiated state by opposing the inductive signals
	emanating from the ureteric bud and cooperates with WNT9B to promote renewing progenitor
	cells proliferation. Acts through its interaction with TCF7L2 and OSR1 in a canonical Wnt
	signaling independent manner preventing transcription of differentiation genes in cap
	mesenchyme such as WNT4. Also acts independently of OSR1 to activate expression of many
	cap mesenchyme genes, including itself, GDNF and OSR1. During craniofacial development
	plays a role in growth and elongation of the cranial base through regulation of chondrocyte
	differentiation (PubMed:20515681). During stomach organogenesis, controls pyloric sphincter
	formation and mucosal growth through regulation of a gene network including NKX2-5,
	BMPR1B, BMP4, SOX9 and GREM1 (PubMed:19660448). During branchial arch development,
	acts to mediate HOXA2 control over the insulin-like growth factor pathway
	(PubMed:18321982). Also may be involved in limb tendon and ligament development
	(PubMed:7720577). Plays a role in cell proliferation and migration (By similarity).
	{ECO:0000250 UniProtKB:Q9NPC8, ECO:0000269 PubMed:17036046,
	ECO:0000269 PubMed:18321982, ECO:0000269 PubMed:18682239,
	ECO:0000269 PubMed:19660448, ECO:0000269 PubMed:20515681,
	ECO:0000269 PubMed:21350016, ECO:0000269 PubMed:22902740,
	EC0:0000269 PubMed:24598167, EC0:0000269 PubMed:7720577}.
Molecular Weight:	33.7 kDa Including tag.
UniProt:	Q62232
Pathways:	Protein targeting to Nucleus
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 gurantee
	though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible
	options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

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Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

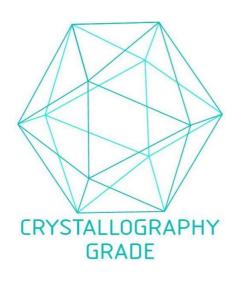


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process