重组小鼠 USH2A 蛋白产品说明书

一、产品基础信息

货号：REP51581

蛋白名称：Usherin (Usher syndrome type IIa protein homolog) (Usher syndrome type-2A protein homolog)

别名：Ush2A, Gm676

UniProt 编号：Q2QI47

UniProt 链接：www.uniprot.org/uniprotkb/Q2QI47/entry

种属来源：小鼠

表达系统：HEK293T 真核细胞表达系统

序列长度：5193 AA

分子量：570 KD

蛋白标签：C 端/His6

二、氨基酸序列

MHYLALSPGFLCYTIKTLILAYLASVLVLAASQGVFPRLENVGAFRKVSTVPTHATCGFPGPSTFCRS
PVAAEHVQLCTERLCIQDCPYRSASPLYTALLEGLRSCIPADDGDLHPYSRSSSVSFMFGSHQNCPS
LRAPRLAAELTLAVWLKLEQGGTMCVIEKTVDGQIVFKVTISEKETMFYYRTVNGLQPPIKVMTPGRIL
MKKWIHLTVQVHQTAISFFVDGLEENSTAFDTRTLHDSVTDSVSSVIQVGQSLNGSEQFVGRMQDF
RLYNVSLTNREILEVFSGDFPHLHIQPHCRCPGSHPRVHPSVQQYCIPNGAGDTPEHRMSRLNPEA
HPLSFINDDDVATSWISHVFTNITQLYEGVAISIDLENGQYQVLKVITQFSSLQPVAIRIQRKKADSSPW
EDWQYFARNCSVWGMKDNEDLENPNSVNCLQLPDFIPFSHGNVTFDLLTSGQKHRPGYNDFYNSS
VLQEFMRATQIRLHFHGQYYPAGHTVDWRHQYYAVDEIIVSGRCQCHGHAETCDRTRRPYRCLCSP
HSFTEGPQCDRCSPLYNDKPFRSGDNVNAFNCKPCQCHGHASSCHYDASVDPFPLEHNRGGGGV
CDDCQHHTTGRHCESCQDYFYRPVGADPAAPDACKLCDCNRAGTRNGSLHCDPIGGQCDCKRRV
SGRQCLQCQDGFYDLQALDPDGCRPCNCNPSGTVDGDITCHQNSGQCSCKANVIGLRCNRCNFG
FKFLQSFNGDGCEPCQCNLHGSVNQLCDPLSGQCACKKEAKGLKCDSCRENFYGLPWSACEVCD
CSKAGSQPGTVCDTETGQCVCKPNVGGRQCSQCKAGYFNLYQNDSHLCLTCNCEKMGTVNGSLR
CDKSTGQCPCKLGVTGLRCHQCKPHRFNLTMDNPQGCQACDCDSLGTLPGSMCDPISGQCLCLPH
RQGRRCEQCQPGFYSSPSNATGCLPCLCHTAGAVSHICNSVTGQCSCHDPSTTGRSCHQCQESYF
RFDPLTGRCRPCHCHVAGASNGTCDAVTGQCFCKEFVTGSKCDTCVPGASHLDVNNLLGCSKTPS
QQPPPRGWVQSSSTINVSWSPPECPNAHWLTYTLFRNGSEIYTTEDEHPYYTQYFLDTSLSPHTAY
SYYIETSNVHSSTRSIPVIYETKPEVSEGHLNLTHIIPVGSDSITLTWTGLSNSSDPVAKYVLSCTPVDS
TEPCVSYEGPETSATIWNLVPFTQYCFSVQGCTNESCFYSLPIIVTTAQAPPQTQGPPTVWKISPTEL
RIEWSPPVDSNGIIISYELYMRRWLSTEESLVFESHGLVSSHSALQSVNPSKNLLQQPQASTFISGLE

PHTEYAFRVLAVNMAGRVSSAWASERTGESVPVFMAPPSVSPLSPHSLSVSWEKPAENFTRGEIIG
YKISMVSEHFPLHDVPVMCSKMVHFAKSQDQSYIVRGLEPYRTYSFTVSLCDSVGCVTSALGSGQT
LAAAPAQLRPPMVTGVNSTTVHIRWLPPAGVNGPPPLYHLERKKSSLPAATAAVTKGTRFVGHGYC
RFPRTAHADFIGIKASFRTRVPEGLILLALSPGDQEEYFTLQLKNGRPYFLYNSQGTLVEVTPTDDPS
QGYRDGEWHEIIAVRHQAFGQITLDGQYTGSSSSLNGSSVTGGYTGLFVGGVPQGHSVLQKRLEIIQ
RGFVGCLKDVFIMKGYSPSGTWLPLDWQSSEEQVNVHPSWEGCPTNLEEGVQFLGAGFLELPSDT
FHAAKDFEISLKFQTDQLNGLLLFIHNTEGPDFLAVELKRGLLSFKFNSSLVFTRVDLRLGLADCDGK
WNTVSIKKEGSVVSVRVNALKKSTSQAGGQPLLVNSPVYLGGIPRELQDAYRHLTLEPGFRGCVKE
VAFARGVVVNLASVSSRAVRVNQDGCLSSDSTVNCGGNDSILVYRGSQQSVYESGLQPFTEYLYRV
TASHEGGAVSSDWSRGRTLGTAPQSVPTPSRAQSINGSSVEVAWNEPAVVKGVLEKYVLKAYSED
SSQPRVPSASTELHDTSTHSGVLIGLHPFHSYTVTLTACSRAGCTESSQALSISTPQEAPQEVQAPV
AVALPNSLSFFWSLPRQANGIITQYSLYVDGRLVYTGKGQNYTVTDLRVFAAYEIIVGACTQAGCTNS
SQVILHTAQLPPEQVDPPGLTVLDSRTIHVRWKQPRQLNGILERYILYILNPIHNSTMWSVVYNSTEKL
QAHVLHHLSPGGLYLIRLRVCTGGGCTTSEPSQALMEETIPEGVPAPRAHSYSPDSFNISWTEPEYP
NGVITTYELYLDDTLIHNSSGLSCHAYGFDPGSLHTFQVQACTAKGCALGPLVGNRTLEAPPEGVVN
VLVKPEGSREAHVRWDAPAHPNGRLTYSVHFTGSFYADQAGDNYTLLSGTKTIRGIEGSRLWVLVD
GLVPCSHYMVQVNASNSRGSVLSDPVSVEMPPGAPDGLLSPRLAAAAPTSLQVVWSTPARNNAPG
SPRYQLQMRPGPSTHGRLELFPIPSASLSYEVTGLQPFTVYEFRLVATNGFGTAYSAWTPLMTTEDK
PGPIDAPILINVKARMLSVIWRQPAKCNGAITHYNIYLHGRLYLTVSGRVTNYTVVPLHPYKAYHFQVE
ACTSQGCSKSPSSETVWTLPGNPEGIPSPQLFPYTPTSIIVTWQPSAHLDLLVENVTIERRVKGKKEV
RNLVTLARSQAMKFIDNDPALRPWTRYEYRVLGSTLDGGTNSSAWVEVTTRPCRPSGVQPPTVRVL
APDTVEVSWKAPLMQNGDILSYEIRMPEPLIKMTNMSSIMLSHLVKHLIPFTNYSVTIVACSGGNGYL
AGCTESPPTLATTHPAPPQELAPLSVILLSESDVGISWQPPSKPNGPNLRYELLRCKIQQPLASNPPE
DLNLWHNIYSGTRWFYKDKGLSRFTTYEYKLFVHNSVGFTPSREVTVTTLAGSPERGATVTASILNH
TAIDVRWKKPTFQDLQGDVEYYTLFWSSGTSEESLKIFPDVDFHVIGQLSPNVEYQVFLLVFNGVHAI
NSTVVHVTMWEEEPQGMLPPEVVIINSTAVRVIWTSPSNPNAVVTESSVYVNNKLYKTGTDAPGSFV
LEDLSPFTIYDIQVEVCTKDACVKSNGTQVSTAEDTPSDISIPVIRGITSRSLQIDWTTPANPNGIILGYD
VLRKTWRPCSETQKLTDKPRDELCKAVKCQYPGKVCGHTCYSPGTKVCCDGLLYDPQPGYSCCED
KYIALSPNATGVCCGGRMWEAQPDHQCCSGHYARILPGEICCPDERHNRVSVGFGDACCGTMPYA
TSGSQVCCAGRLQDGYRQQCCGGEMVSQDFQCCGGGEEGMVYSYLPGMLCCGQDYVNMSETIC
CSASSGESKAHVRKDDPTPVKCCGTELSPESQRCCDGVGYNPLKYVCSDEISAGMAMKETRVCATI
CPATMKATAHCGRCDFNATTHICTVMRGPLNPTGKKAVEGLCSAAEEIVHSGDVNTHSFIDRDLKPS
TVYEYRISAWNSYGRGFSQSVRASTREDVPEGVKAPRWARTGKHEDVIFLQWEEPMQSNGPIIHYIL
FRDGRERFQGTALSFTDTQGIQPLQEYSYQLKACTAAGCAVSCKVVAATTQRSPENVPPPNITAQS
SETLHLSWSVPEKMKDAIKAYQLWLDGKGLIYTDTSDRRQHTVTGLQPYTNYSFTLAVCTSVGCTSS
EPCVGQTLQAAPQGVWVTPRHIIINSTTVELYWNPPERPNGLISQYQLRRNGSLLLVGGRDNQSFTD
SNLEPGSRYIYKLEARTGGGSSWSEDYLVQMPLWTPEDIHPPCNVTVLGSDSIFVAWPTPGNLLPKI
PVEYSILLSGGSVTLLVFSVRHRQSAHLKNLSPFTQYEIRIQACQNGGCGVSPGTYVRTLEAAPVGL
MPPLLKALGSSCIEVKWMPPTRPNGIITSYVVHRRPADTEEESLLFVWSEGALEFTDDTGTLRPFTLY
EYRVRAWNSQGAVDSPWSTIQTLEAPPRGLPAPRVQATSAHSAMLNWTEPEAPNGLISQYHVIYQE
RPDAAAPGSSTVHAFTVTGTSRQAHLFGLEPFTTYHIGVVAVNSAGKVSSPWTLIKTLESAPSGLMN
FTVEQREKGRALLLQWSEPVKTNGVIKAYNIFNDGVLEYSGLGRQFLFRRLAPFTLYTLILEACTTAG
CAHSVPQPLWTEEAPPDTQMAPTIQSVGPTNVRLHWSQPASPNGKIIHYEVIRRRSEEEDWGNTTW
QADGNTVFTEYNTQGNAWVYNDTGLQPWRQYAYRICAWNSAGHTCSSWNVVRTLQAPPDGLSPP
EISYVSMSPLQLLISWLPPRHSNGVIQGYRLQRDGVLPALNFNASTFSYMDSQLLPFSTYSYAILACT
GGGCCTSEPTNITTPEVPPSEVSPPVLWDISAHQMNVSWSPPSIPNGKIVKYLLQCDGEEHLAGQGL
SFLLSNLQPSTQYNISLVACTSGGCTASRTTSAWTKEAPPENMDPPTLHITGPESIEITWTPPRNPHG
LIRSYELRRDGAIVYVGLETRYHDFTLAPGVEYSYSVTATNSRGSVLSPLVKGQTSPSAPSGLQPPKL
HSGDALELLADWDPPVRTNGKIINYTLFVREMFEGKTRAMSINTTHSSFGTRSLTVKHLKPFHRYEVR

VQACTALGCTSSEWTSTQTSEVPPLRQPAPHLEVQTATGGFQPIVAVWWAGPLQPNGKIICFELYR
RQVAAWPGTSSSLLIYNGSFRSFMDSELLPFTEYEYQVWAVNSAGKAASNWTRCRTGPAPPEGLQ
APTFHTVSSTRAVVNISVPSRPNGNISLFRVFSNSSGTHVTLSEGTATQQTLHDLSPFTTYTIGVEACT
CFNCCSRGPTAELRTHPAPPSGLSPPQVQTLGSRMASVHWTPPLLPNGVIHSYELQLQRACPPDSA
PRCPPSHTERKYWGPGHRASLAGLQPNTAYGVQVVAYNEAGSTASGWTNFSTKKEMPQYQALFS
VDSNASMVWVDWSGTFLLNGHLKEYVVTDGGRRVYSGLDTTLYIPRMVDKIFFFQVTCTTDIGSVKT
PLVQYDAATGSGLVLTTPGEKKGAGTKSTEFYSELWFIMVMAVVGLILLAIFLSLILQRKIHKEPCIRER
PPLVPLQKRMTPLSVYPPGETHVGLADTRLPRSGTPMSIRSSQSVSVLRIPSQSQLSHAYSQSSLHR
SVSQLMDMADKKVVTEDSLWETIMGHSSGLYVDEEELMNAIKGFSSVTKEHTAFTDTHL

三、缓冲液体系

液体剂型：基于 PBS 缓冲体系，含 50%甘油。可根据客户需求定制甘油含量，下单时可备注特殊要求。

冻干粉剂型：冻干前缓冲液为含 6%海藻糖的 PBS 缓冲体系。

四、储存条件

产品收到后可置于-20℃或-80℃环境保存。为保障蛋白活性、避免反复冻融导致蛋白变性失活，建议分装保存，按需取用。

五、产品简介

本产品为 HEK293T 真核细胞表达系统制备的重组 Usherin (Usher syndrome type IIa protein homolog) (Usher syndrome type-2A protein homolog)。蛋白产品适用于体外功能实验、蛋白互作研究、抗体制备及各类生物医学等科研场景。

蛋白功能：作为 USH2 复合物的成员参与听觉和视觉过程（PubMed:20502675）。在内耳中，其对于维持静纤毛束踝结构的形成是必需的，该结构连接发育中的耳蜗毛细胞内正在生长的静纤毛（PubMed:20502675, PubMed:24334608）。在视网膜感光细胞中，USH2 复合物对于维持纤毛周膜复合物是必需的，该复合物似乎在调控细胞内蛋白质运输中发挥作用（PubMed:20502675）。

亚细胞定位：细胞突起，静纤毛膜；单次跨膜 I 型膜蛋白。感光细胞内节。注：内耳感觉细胞中纤毛间踝连接的组成部分（PubMed:20502675、PubMed:24334608）。在感光细胞中，定位于连接纤毛周围的顶端内节质膜微区，该区域称为纤毛周膜复合物（PubMed:20502675、PubMed:24334608）。；[亚型 2]：分泌型。

六、注意事项

- 严禁反复冻融产品，最大程度保证蛋白稳定性与生物活性。
- 若对缓冲液组分有特殊要求，请在下单时备注说明。
- 本产品仅用于科学研究，不可用于临床诊断、治疗及商业生产等用途。