Datasheet for ABIN7554984

# ERVK-8 Protein (AA 1-956) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | ERVK-8 |
| Protein Characteristics: | AA 1-956 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This ERVK-8 protein is labelled with His tag. |

## Product Details

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| Purpose: | Custom-made recombinant ERVK-8 Protein expressed in mammalian cells. |
| Sequence: | NKSKKRRNRV SFLGVATIEP PKPIPLTWKT EKLVWVNQWP LPKQKLEALH LLANEQLEKG HIEPSFSPWN SPVFVIQKKS GKWRMLTDLR AVNAVIQPMG PLQPGLPSPA MIPKDWPLII IDLKDCFFTI PLAEQDCEKF AFTIPAINNK EPATRFQWKV LPQGMLNSPT ICQTFVGRAL QPVRKKFSDC YIIHYIDDIL CAAETKDKLI DCYTFLQAEV ASAGLAIASD KIQTSTPFHY LGMQIENRKI KPQKIEIRKD TLKTLNDFQK LLGDINWIQP TLGIPTYAMS NLFSILRGDS DLNSKRILTP EATKEIKLVE EKIQSAQINR IDPLAPLQLL IFATAHSPTG IIIQNTDLVE WSFLPHSTVK TFTLYLDQIA TLIGQTRLRI IKLCGNDPDK IVVPLTKEQV RQAFINSGAW QIGLANFVGI IDNHYPKTKI FQFLKLTTWI LPKITRREPL ENALTVFTDG SSNGKAAYTG PKERVIKTPY QSAQRAELVA VITVLQDFDQ PINIISDSAY VVQATRVVET ALIKYSMDDQ LNQLFNLLQQ TVRKRNFPFY ITHIRAHTNL PGPLTKANEQ ADLLVSSALI KAQELHALTH VNAAGLKNKF DVTWKQAKDI VQHCTQCQVL HLPTQEAGVN PRGLCPNALW QMDVTHVPSF GRLSYVHVTV DTYSHFIWAT CQTGESTSHV KKHLLSCFAV MGVPEKIKTD NGPGYCSKAF QKFLSQWKIS |

## Product Details

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| | HTTGIPYNSQ GQAIVERTNR TLKTQLVKQK EGGDSKECTT PQMQLNLALY TLNFLNIYRN QTTTSAEQHL TGKKNSPHEG KLIWWKDNKN KTWEIGKVIT WGRGFACVSP GENQLPVWIP TRHLKFYNEP IRDAKKSTSA ETETPQSSTV DSQDEQNGDV RRTDEVAIHQ EGRAADLGTT KEADAVSYKI SREHKGDTNP REYAACSLDD CINGGKSPYA CRSSCS **Sequence without tag. The proposed Purification-Tag is based on experiences 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.** |
| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer. |
| Characteristics: | Key Benefits:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalian cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>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. |
| Purity: | > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
| Grade: | custom-made |

## Target Details

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| Target: | ERVK-8 |
| Alternative Name: | ERVK-8 (ERVK-8 Products) |
| Background: | Endogenous retrovirus group K member 8 Pol protein (HERV-K115 Pol protein) (HERV-K_8p23.1 provirus ancestral Pol protein) [Includes: Reverse transcriptase (RT) (EC 2.7.7.49), Ribonuclease H (RNase H) (EC 3.1.26.4), Integrase (IN)],FUNCTION: Early post-infection, the reverse transcriptase converts the viral RNA genome into double-stranded viral DNA. The RNase H |

## Target Details

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| | domain of the reverse transcriptase performs two functions. It degrades the RNA template and specifically removes the RNA primer from the RNA/DNA hybrid. Following nuclear import, the integrase catalyzes the insertion of the linear, double-stranded viral DNA into the host cell chromosome. Endogenous Pol proteins may have kept, lost or modified their original function during evolution. |
| Molecular Weight: | 107.7 kDa |
| UniProt: | P63133 |

## Application Details

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| Application Notes: | We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | The buffer composition 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: | 12 months |