

mRNA-AsCpf1

mRNA-AsCpf1 (Acidaminococcus Cpf1) is a ready-to-use mRNA product encoding the Cpf1 nuclease (also known as Cas12a). It is suitable for gene editing research and the development of CRISPR-Cas12a systems. AsCpf1 is a novel nuclease within the CRISPR-Cas family, offering high target specificity and low off-target effects, making it ideal for precise genome editing and functional genomics studies.

Name	Cat.No	Scale	State
mRNA-AsCpf1	HX-mRNA166	1mg	Lyophilized/Liquid

Concentration: 1mg/mL

Storage Buffer: ddH₂O pH=7.0

mRNA length: 4269 nt

Amino acid sequence size: 1323 kDa

Handling and Storage: store at – 80°C for long term

Amino acid sequence:

MTQFEGFTNLYQVSKTLRFELIPQGKTLKHIQEQGFIEEDKARNNDHYKELKPIIDRIYKT
 YADQCLQLVQLDWENLSAAIDSYRKEKTEETRNALIEEQATYRNAIHDIYFIGRTDNL
 DAINKRHAEIYKGLFKAELFNGKVLKQLGTVTTTEHENALLRSFDKFTTYFSGFYENR
 KNVFSAEDISTAIPHRIVQDNFPKFKENCHIFTRLITAVPSLREHFENVKKAIGIFVSTSI
 EEVFSFPFYNQLLTQTQIDLYNQLLGGISREAGTEKIKGLNEVLNLAIQKNDETAHIIAS
 LPHRFIPLFKQILSDRNTLSFILEEFKSDEEVIQSFCKYKTLRNENVLETAALFNELNS
 IDLTHIFISHKKLETISSALCDHWDTLRNALYERRISELTGKITKSAKEKVQRSLKHEDIN
 LQEIIAAGKELSEAFKQKTSEILSHAHAALDQPLPTTLKKQEEKEILKSQLDSLLGLYH
 LLDWFAVDESNEVDPEFSARLTGIKLEMPSLSFYNKARNYATKKPYSVEKFKLNFMQ
 PTLASGWDVNKEKNNGAILFVKNGLYYLGIMPKQKGRYKALSFEPTSEKTFDQKMY
 YDYFPDAAKMIPKCSTQLKAVTAHFQHTTTPILLSNNFIEPLEITKEIYDLNNPEKEPKK
 FQTAYAKKTGDQKGYREALCKWIDFTRDFLSKYTKTTSIDLSSLRPSSQYKDLGEYYAE
 LNPLLYHISFORIAEKEIMDAVETGKLYLFQIYNKDFAKGHHGKPNLHTLYWTGLFSPE
 NLAKTSIKLNGQAELFYRPKSRMKRMAHRLGEKMLNKKLKDQKTPIDTLYQELYDYV
 NHRLSHDLSDEARALLPNVITKEVSHEIHKDRRFTSDKFFFHVPITLNYQAANSPSKFN

QRVNAYLKEHPETPIIGIDRGERNLIYITVIDSTGKILEQ RSLNTIQQFDYQKKLDNREK
ERVAARQAWSVVGTIKDLKQGYLSQVIHEIVDLMIHYQAVVLENLNFGFKSKRTGIA
EKAVYQQFEKMLIDKLNCLVLKDYPAEKVGGLNPNYQLTDQFTSFAKMGTSQSGFLFY
VPAPYTSKIDPLTGFVDPFVWKTIKNHESRKHFLGFDLHYDVKTGDFILHFKMNRN
LSFQRGLPGFMPAWDIVFEKNETQFDAKGTPFIAGKRIVPVIENTHRFTGRYRDLYPAN
ELIALLEEKGIVFRDGSNILPKLLENDSSHAIIDTMVALIRSVLQMRNSNAATGEDYINS
PVRDLNGVCFDSRFQNPWPMDADANGAYHIALKGQLLNHLKESKDLKLQNGISN
QDWLAYIQELRNKRPAATKKAGQAKKKK