

mRNA-eSpCas9

mRNA-eSpCas9 (Enhanced Cas9) is an optimized mRNA product encoding a high-fidelity Cas9 nuclease with reduced off-target effects and improved editing specificity. It is ideal for high-precision gene editing research and is particularly valuable in therapeutic genome editing and experiments requiring enhanced targeting accuracy.

Name	Cat.No	Scale	State
mRNA-eSpCas9	HX-mRNA169	1mg	Lyophilized/Liquid

Concentration: 1mg/mL

Storage Buffer: ddH₂O pH=7.0

mRNA length: 4452 nt

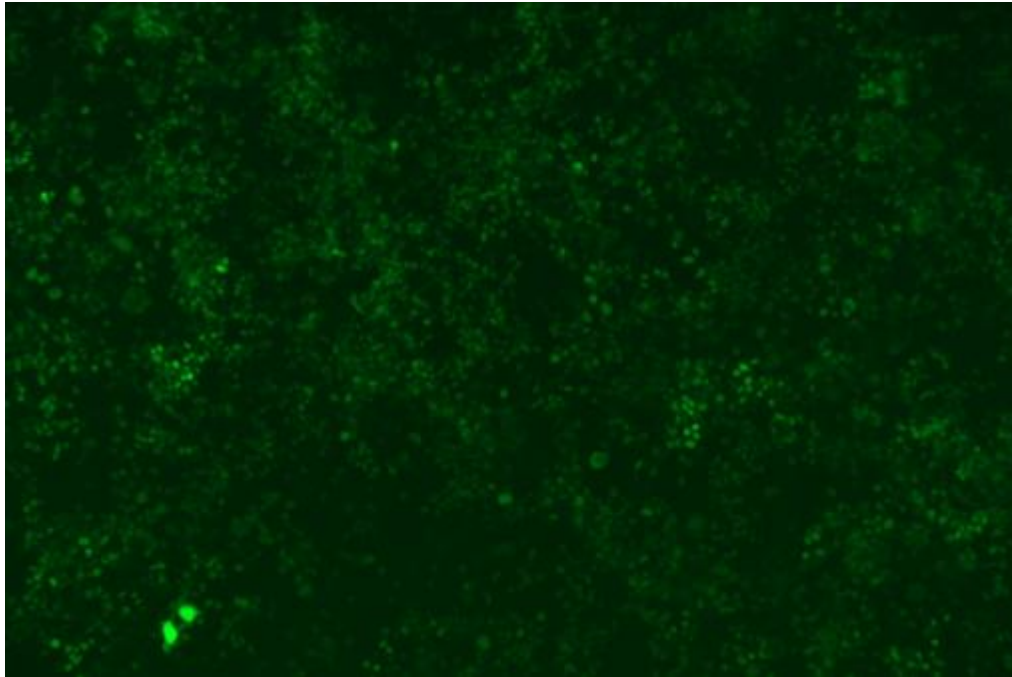
Amino acid sequence size: 1384 kDa

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

Cell Expression result:

Cell Line: 293T Culture Plate: 96-well plate Cell Confluency: 80%

Transfection Dose: 200 ng per well



Amino acid sequence:

MDKKYSIGLDIGTNSVGWAVITDEYKVPSSKFKVLGNTDRHSIKKNLIGALLFDSGET
AEATRLKRTARRRYTRRKNRICYLQEIFSNEMAKVDDSSFFHRLEESFLVEEDKKHERH
PIFGNIVDEVAYHEKYPTIYHLRKKLVDSTDKADLRLIYLALAHMIKFRGHFLIEGDLNP
DNSDVKLFIQLVQTYNQLFEENPINASGVDAKAILSARLSKSRLENLIAQLPGEKK
NGLFGNLIASLGLTPNFKSNFDLAEDAKLQLSKDQYDDDLNLLAQIGDQYADFL
AAKNLSDAILSDILRVNTEITKAPLSASMIKRYDEHHQDLTLLKALVRQQLPEKYKEIF
FDQSKNGYAGYIDGGASQEEFYKFIKPILEKMDGTEELLVKLNREDLLRKQRTFDNGS
IPHQIHLGELHAILRRQEDFYPFLKDNREKIEKILTFRIPYYVGPLARGNSRFAWMTRKS
EETITPWNFEVVDKGGASAQSFIERMTNFDKNLPNEKVLPHKSLLEYEFTVYNELTKV
KYVTEGMRKPAFLSGEQKKAIVDLLFKTNRKVTVKQLKEDYFKKIECFDSVEISGVED
RFNASLGTYHDLLKIIKDKDFLDNEENEDILEDIVLTLTLFEDREMIEERLKTYAHLFDD
KVMKQLKRRRYTGWGRLSRKLINGIRDKQSGKTILDFLKSDGFANRNFMQLIHDDSL
TFKEDIQKAQVSGQGDSLHEHIANLAGSPAIKKGILQTVKVVDELVKVMGRHKPENIV
IEMARENQTTQKGQKNSRERMKRIEELGKELGSQILKEHPVENTQLQNEKLYLYYLQN
GRDMYVDQELDINRLSDYDVDHIVPQSFLADDSIDNKVLTRSDKNRGKSDNVPSEE
VVKMKKNYWRQLLNAKLITQRKFDNLTKAERGGLSELDKAGFIKRQLVETRQITKHV
AQILDSRMNTKYDENDKLIREVKVITLKSCLVSDFRKDFQFYKREINNYHHAHDAYL
NAVVGTAIIKKYPALESEFVYGDYKVYDVRKMIKSEKQKATAKYFFYSNIMNFFKT
EITLANGEIRKAPLIETNGETGEIVWDKGRDFATVRKVL SMPQVNIVKKTEVQTGGFS
KESILPKRNSDKLIARKKDWDPKKGFFSPTVAYSVLVVAKVEKGKSKKLSVKELL
GITIMERSSEKPNPIDFLEAKGYKEVKKDLIIKLPKYSLELENGRKRMLASAGELQKG

NELALPSKYVNFLYLASHYEKCLKGSPEDNEQKQLFVEQHKHYLDEIIEQISEFSKRVIL
ADANLDKVLSAYNKHRDKPIREQAENIIHLFTLTNLGAPAAFKYFDTTIDRKRYTSTKE
VLDATLIHQSIITGLYETRIDLSQLGGDKRPAATKKAGQAKKKK