

mRNA-SpCas9

mRNA-SpCas9 (Streptococcus pyogenes Cas9) is a ready-to-use mRNA product encoding the Cas9 nuclease. It is suitable for genome editing and CRISPR-Cas9 research. SpCas9 is the most widely used gene editing tool, enabling precise gene knockout, knock-in, and gene modification. It is extensively applied in functional genomics and gene therapy studies.

Name	Cat.No	Scale	State
mRNA-SpCas9	HX-mRNA168	1mg	Lyophilized/Liquid

Concentration: 1mg/mL

Storage Buffer: ddH₂O pH=7.0

mRNA length: 4452 nt

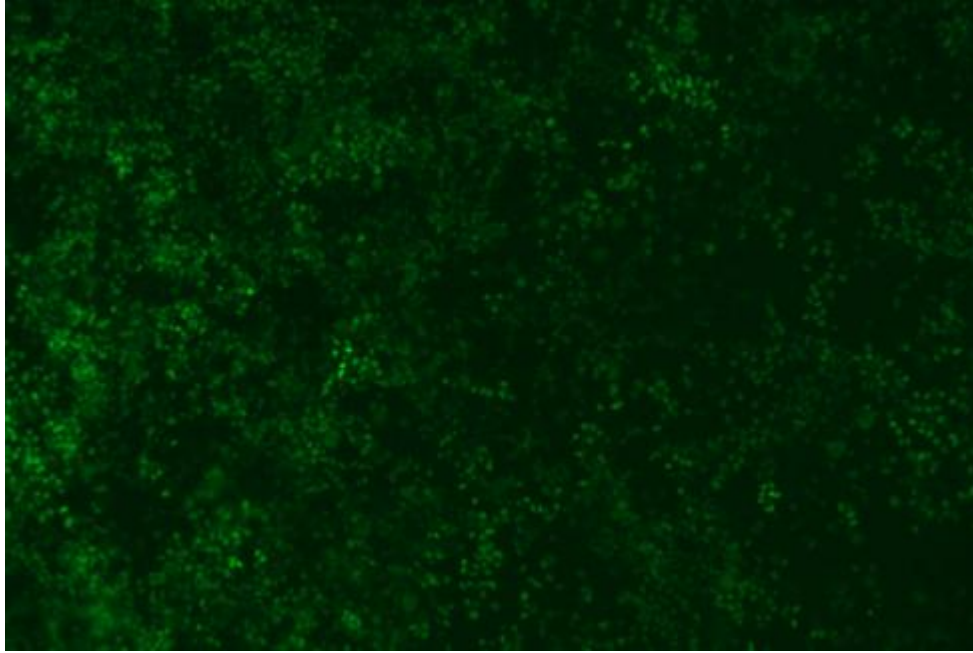
Amino acid sequence size: 1384 kDa

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:

MDKKYSIGLDIGTNSVGWAVITDEYKVPSKFKVLGNTDRHSIKKNLIGALLFDSGET
 AEATRLKRTARRRYTRRKNRICYLQEIFSNEMAKVDDSFHRLVESFLVEEDKKHERH
 PIFGNIVDEVAYHEKYPTIYHLRKKLVDSTDKADLRLIYLALAHMIKFRGHFLIEGDLNP
 DNSDVKLFIQLVQTYNQLFEENPINASGVDAKAILSARLSKSRLENLIAQLPGEKK
 NGLFGNLIASLSGLTPNFKSNFDLAEDAKLQLSKDQYDDDLNLLAQIGDQYADFL
 AAKNLSDAILLSDILRVNTEITKAPLSASMIKRYDEHHQDLTLLKALVRQQLPEKYKEIF
 FDQSKNGYAGYIDGGASQEEFYKFIKPILEKMDGTEELLVKNREDLLRKQRTFDNGS
 IPHQIHLGELHAILRRQEDFYFPLKDNREKIEKILTFRIPYYVGPLARGNSRFAWMTRKS
 EETITPWNFEVVDKGGASAQSFIERMTNFDKNLPNEKVLPHKSLLEYFTVYNELTKV
 KYVTEGMRKPAFLSGEQKKAIVDLLFKTNRKVTVKQLKEDYFKKIECFDSVEISGVED
 RFNASLGTYHDLLKIIKDKDFLDNEENEDILEDIVLTLTLFEDREMIEERLKYAHLFDD
 KVMKQLKRRRYTGWGRLSRKLINGIRDKQSGKTILDFLKSDGFANRNFMQLIHDDSL
 TFKEDIQKAQVSGQGDSLHEHIANLAGSPAIKKGILQTVKVVDELVKVMGRHKPENIV
 IEMARENQTTQKGQKNSRERMKRIEELGKELGSQILKEHPVENTQLQNEKLYLYYLQN
 GRDMYVDQELDINRLSDYDVDHIVPQSFLKDDSIDNKVLTRSDKNRGKSDNVPSEE
 VVKMKKNYWRQLLNAKLITQRKFDNLTKAERGGLSELDKAGFIKRQLVETRQITKHV
 AQILDSRMNTKYDENDKLIREVKVITLKSCLVSDFRKDFQFYKVINNYHHAHDAYL
 NAVVGTALIKKYPKLESEFVYGDYKVYDVRKMIKSEQEIGKATAKYFFYSNIMNFFKT
 EITLANGEIRKRPLIETNGETGEIVWDKGRDFATVRKVLSPQVNVIVKKTEVQTGGFS
 KESILPKRNSDKLIARKKDWDPKKGFFSPTVAYSVLVAKVEKGKSKKLKSVKELL
 GITIMERSSEFEKNPIDFLEAKGYKEVKDLIILPKYSLFELENGRKRMLASAGELQKG
 NELALPSKYVNFYLYLASHYEKLGKSPEDNEQKQLFVEQHKHYLDEIIEQISEFSKRVL

ADANLDKVL SAYNKHRDKPIREQAENIIHLFTLTNLGAPAAF KYFDTTIDRKRYTSTKE
VL DATLIHQ SITGLYETRIDLSQLGGDKRPAATKKAGQAKKKK