

## mRNA-LbCpf1

mRNA-LbCpf1 (Lachnospiraceae Cpf1) is a ready-to-use mRNA product encoding the Cpf1 nuclease (also known as Cas12a). It is suitable for high-efficiency gene editing and functional genomics research. LbCpf1 offers extended target sequence recognition and enhanced editing efficiency, making it well-suited for use in a variety of mammalian cell types and in vivo applications.

Name	Cat.No	Scale	State
mRNA-LbCpf1	HX-mRNA167	1mg	Lyophilized/Liquid

**Concentration:** 1mg/mL

**Storage Buffer:** ddH<sub>2</sub>O pH=7.0

**mRNA length:** 4032 nt

**Amino acid sequence size:** 1244 kDa

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

**Amino acid sequence:**

MSKLEKFTNCYLSKTLRFKAIPVGKTQENIDNKRLLEVEDEKRAEDYKGVKLLDRYYL  
 SFINDVLHSIKLKNLNNYISLFRKKTRTEKENKELENLEINLRKEIAKAFKGNEGYKSLF  
 KKDIIETILPEFLDDKDEIALVNSFNGFTTAFTGFFDNRENMFSEEAKSTSIAFRCINENL  
 TRYISNMDIFEKVDAIFDKHEVQEIKEKILNSDYDVEDFFEGEFFNFVLTQEGIDVYNAI  
 IGGFVTESGEKIKGLNEYINLYNQKTKQKLPKFKPLYKQVLSDRESLSFYGEGYTSDEE  
 VLEVFRNTLNKNSEIFSSIKKLEKLFKNFDEYSSAGIFVKNGPAISTISKDIFGEWNVIR  
 DKWNAEYDDIHLKKKAVVTEKYEDDRRKSFKKIGSFSLEQLQEYADADLSVVEKLKEI  
 IIQKVDEIYKVYGSSEKLFDAFVLEKSLKKNDAVVAIMKDLLDSVKSFENYIKAFFGE  
 GKETNRDESFYGFVFLAYDILLKVDHIYDAIRNYVTQKPYSKDKFKLYFQNPQFMGG  
 WDKDKETDYRATILRYGSKYYLAIMDKKYAKCLQKIDKDDVNGNYEKINYKLLPGPNK  
 MLPKVFFSKWMAYYNPSEDIQKIYKNGTFFKKGDMFNLNDCHKLIDFFKDSISRYPK  
 WSNAYDFNFSETEKYKDIAGFYREVEEQGYKVSFESASKKEVDKLVEEGKLYMFQIYN  
 KDFSDKSHGTPNLHTMYFKLLFDENNHGQIRLSGGAELFMRRASLKEELVVHPANS  
 PIANKNPDNPKTTTSLYDVYKDKRFSEDQYELHIPIAINKCPKNIFKINTEVRVLLKHD  
 DNPYVIGIDRGERNLLYIVVVDGKGNIVEQYSLNEIINNFNGIRIKTDYHSLLDKKEKER

FEARQNWTSIENIKELKAGYISQVVHKICELVEKYDAVIALEDLNSGFKNSRVKVEKQV  
YQKFEKMLIDKLNVMVDKKSNPCATGGALKGYQITNKFESFKSMSTQNGFIFYIPAWL  
TSKIDPSTGFVNLLKTKYTSIADSKKFISDFRIMYVPEEDLFEFALDYKNFSRTDADYIK  
KWKLYSYGNRIRIFRNPKNVFDWEEVCLTSAYKELFNKYGINYQQGDIRALLCEQS  
DKAFYSSFMALMSLMLQMRNSITGRTDVDLISPVKNSDGIFYDSRNYEAQENAILPK  
NADANGAYNIARKVLWAIGQFKKAEDEKLDKVKIAISNKEWLEYAQTSVKHKRPAAT  
KKAGQAKKKK