

mRNA-EGFR

mRNA-EGFR is a ready-to-use mRNA product encoding the Epidermal Growth Factor Receptor (EGFR). It is suitable for cancer research, signaling pathway studies, mRNA delivery investigations, and anti-EGFR targeted therapy research. EGFR is a member of the tyrosine kinase receptor family and is widely expressed in epithelial cells. It plays a key role in regulating cell proliferation, differentiation, and apoptosis. EGFR is often overexpressed or mutated in various solid tumors, including non-small cell lung cancer, colorectal cancer, and head and neck cancers, making it a critical target for antibody-based drugs and small-molecule tyrosine kinase inhibitors such as Erlotinib and Gefitinib.

| Name | Cat.No | Scale | State |
|-----------|------------|-------|--------------------|
| mRNA-EGFR | HX-mRNA042 | 1mg | Lyophilized/Liquid |

Concentration: 1mg/mL

Storage Buffer: ddH₂O pH=7.0

mRNA length: 3930 nt

Amino acid sequence size: 1210 kDa

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

Amino acid sequence:

MRPSGTAGAALLALLAALCPASRALEEKVCQGTSNKLTQLGTFEDHFLSLQRMFNN
 CEVVLGNLEITYVQRNYDLSFLKTIQEVAGYVLIANTVERIPLNLQIIRGNMYYENSY
 ALAVLSNYDANKTGLKELPMRNLQEILHGAVRFSNNPALCNVESIQWRDIVSSDFLS
 NMSMDFQNHGSCQKCDPSCPNGSCWGAGEENCQKLTKIICAQQCSGRRCRGKSPS
 DCCHNQCAAGCTGPRESCLVCRKFRDEATCKDTCPLMLYNPTTYQMDVNPEGKY
 SFGATCVKKCPRNYVVDHGSCVRACGADSYEMEEDGVRKCKKCEGPCRKVCNGI
 GIGEFKDSLSINATNIKHFKNCTSISGDLHILPVAFRGDSFHTHPPLDPQELDILKTVKEI
 TGFLLIQAWPENRTDLHAFENLEIIRGRTKQHGQFSLAVVSLNITSLGLRSLKEISDGD
 VIISGNKNLCYANTINWKKLFGTSGQKTKIISNRGENSCKATGQVCHALCSPEGCWG

PEPRDCVSCRNVSRGRECVDKCNLLEGEPRFVENSECIQCHPECLPQAMNITCTG
RGPDNCIQCAHYIDGPHCVKTCPAGVMGENNTLVWKYADAGHVCHLCHPNCTYGC
TGPGLEGCPNGPKIPSIATGMV GALLLLVVALGIGLFMRRRHIVRKRTLRRLLQERE
LVEPLTPSGEAPNQALLRILKETEFKKIKVLGSGAFGTVYKGLWIPEGEKVKIPVAIKEL
REATSPKANKEILDEAYVMASVDNPHVCRLGICLTSTVQLITQLMPFGCLLDYVREH
KDNIGSQYLLNWCVQIAKGMNYLEDRLVHRDLAARNVLVKTQPQHVKITDFGLAKLL
GAEEKEYHAEGGKVPIKWMALESILHRIYTHQSDVWSYGVTWELMTFGSKPYDGIP
ASEISSILEKGERLPQPPICTIDVYMIMVKCWMIDADSRPKFRELIIEFSKMARDPQRYL
VIQGDERMHLPSPDTSNFYRALMDEEDMDDVVDADAYLIPQQGFFSSPSTSRTPLLS
SLSATSNNSTVACIDRNLQSCPIKEDSFLQRYSSDPTGALTEDSIDDFTFLPVPEYINQ
SVPKRPAGSVQNPVYHNQPLNPAPSRDPHYQDPHSTAVGNPEYLNTVQPTCVNSTF
DSPAHWAKGSHQISLDNPDYQQDFFPKAKPNGIFKGSTAENAAYLRVAPQSSEFI
GA