

Product Name	Hyperactive PiggyBac Transposase mRNA
Cat #	EG-2967
Description	Modified mRNA prepared from an engineered hyperactive PiggyBac transposase, DNA-free, animal-free, and phosphatase treated
Modifications	• 5' Capped with ARCA (Anti Reverse Cap Analog, m7(3'-O-methyl)-G(5')ppp(5')G, Cap 0) or CleanCap AG (m7G(5')ppp(5')(2'OMeA)pG, Cap 1) • 5' UTR: hemoglobin subunit alpha 2 (HBA2) • 3' UTR: stability regulatory elements from human α-globin and β-globin genes • Fully substituted with Pseudo-UTP • 30% substituted with 5mCTP • PolyA: 180 nt • Animal-free certification
Protein Sequence	MGSSLDDEHILSALLQSDDELVGEDSDSEVSDHVSEDDVQSDTEEAFIDEVHEV QPTSSGSEILDEQNVIEQPGSSLASNRILTLPQRTIRGKNKHCWSTSKPTRRS RVSA LNIVRSQRGPTRMCRNIYDPLLCKFLFFTDEII SEIVKWTNAEISLKRR ESMTSATFRDTNEDEIYAFFGILVMTAVRKDNHMSTDDLFDRSLSMVYVSVMS RDRFDFLIRCLRMDDKSIRPTLRENDVFTPVRKIWDLFIHQCIQNYTPGAHLT IDEQLLGFRGRCPFRVYIPNKPSKYGIKILMMCDSGTKYMINGMPYLGRGTQT NGVPLGEYYVKELSKPVHGSCRNITCDNWFTSIPLAKNLLQEPYKLTIVGTVR SNKREIPEVLKNSRSRPVGTSMFCFDGPLTLVSYKPKPAKMVYLLSSCDEDAS INESTGKPMVMYYNQTKGGVDTLDMCSVMTCSRKTNRWPMALLYGMINIAC INSFIIYSHNVSSKGEKVQSRKKFMRNLYMGLTSSFMKRKLEAPTLKRYLRDN ISNILPKEVPGTSDDSTEFPVMKKRTYCTYCPSKIRRKASASCKKCKKVICRE HNIDMCQSCF
Application	Genome engineering
Concentration	~1 $\mu\text{g}/\mu\text{l}$
Transfection Protocol	Lipofectamine™ MessengerMAX™ Transfection Reagent Protocol
Shipping	Dry ice
Storage	-80 oC