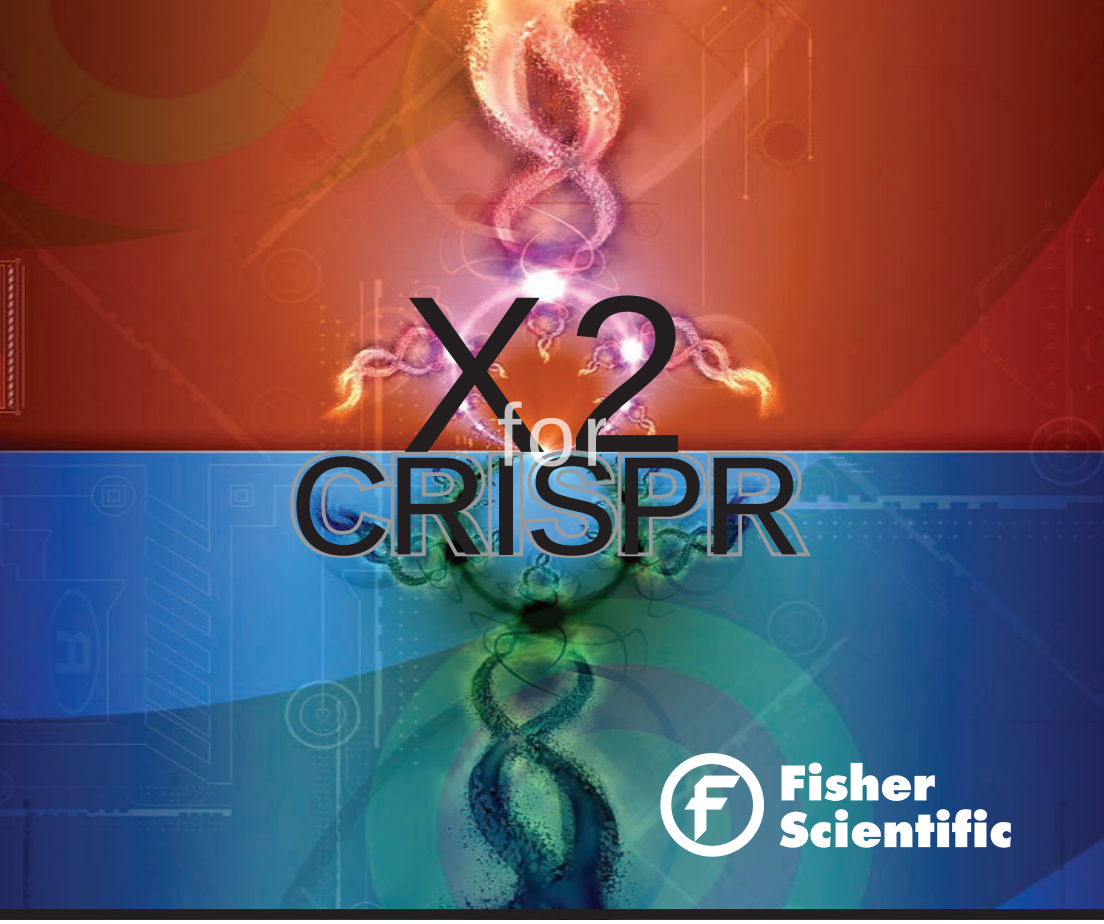
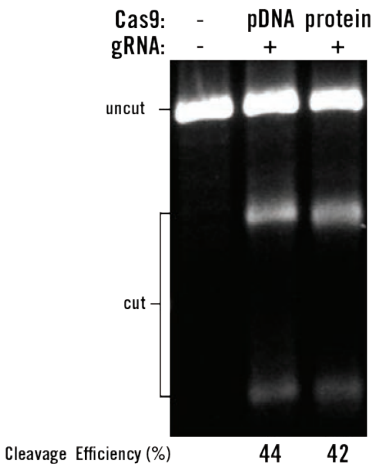


*Trans*IT-X2® Dynamic Delivery System

Now you can use the same transfection reagent for your knockout, knockdown or expression experiments. The *Trans*IT-X2® Dynamic Delivery System takes CRISPR genome editing a step further with an advanced polymeric technology that efficiently delivers plasmid DNA, small RNAs such as siRNA and CRISPR guide RNA or RNP complexes.

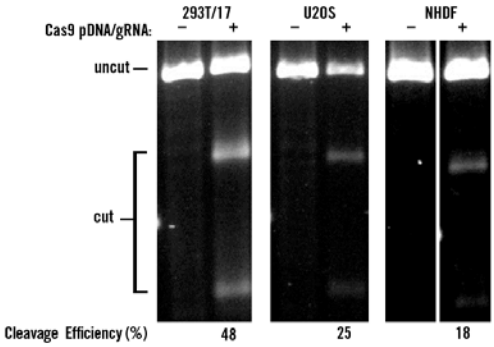


The *Trans*IT-X2® Dynamic Delivery System was used to deliver Cas9 pDNA/gRNA and Cas9 protein/gRNA (RNP complex) into 293T/17 cells. A T7E1 mismatch detection assay was used to measure indel formation at 48 hours post-transfection.

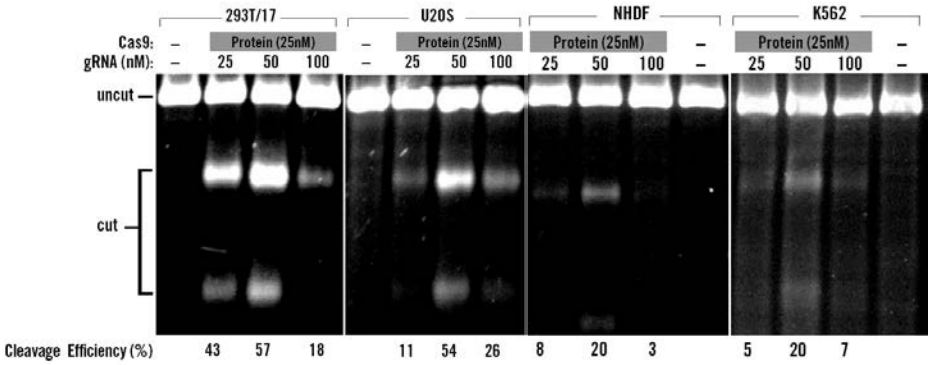
Delivery by Mirus

Delivery by Mirus

The *Trans*IT-X2® DYNAMIC DELIVERY SYSTEM delivers CRISPR/Cas components in multiple formats:



Efficient Genome Editing with Cas9 Plasmid DNA + Guide RNA Oligonucleotides. HEK293T/17, U2OS and NHDF cells were co-transfected with 0.5 µg of Cas9 encoding pDNA (MilliporeSigma) and 50nM PPIB targeting two-part gRNA (Dharmacon) using *Trans*IT-X2® Dynamic Delivery System (2 µl/well of a 24-well plate, Mirus Bio). A T7E1 mismatch detection assay was used to measure cleavage efficiency at 48 hours post-transfection.



Genome Editing with Cas9 + Guide RNA Ribonucleoprotein Complexes. The RNP complex of PPIB targeting two-part gRNA (Dharmacon) and Cas9 protein (PNA Bio) was delivered into HEK293T/17, U2OS, NHDF and K562 cells using *Trans*IT-X2® Dynamic Delivery System (1 µl/well of a 24-well plate, Mirus Bio). A T7E1 mismatch detection assay was used to measure cleavage efficiency at 48 hours post-transfection. High levels of gene editing can be achieved in cells that were transfected with an RNP complex comprised of 50nM of gRNA and 25nM of Cas9 protein.

PRODUCT	DESCRIPTION	PRODUCT NO.	QUANTITY
*Trans*IT-X2® Dynamic Delivery System 	A novel, polymeric system for delivery of multiple nucleic acids to mammalian cells. Delivers CRISPR/Cas9 components in the following formats: • **DNA** -Deliver plasmid DNA expressing Cas9 or guide RNA • **Guide RNA** -Deliver gRNA oligonucleotides targeting your gene of interest • **RNP** -Deliver Cas/gRNA ribonucleoprotein complexes	MIR6003	0.3 ml
		MIR6004	0.75 ml
		MIR6000	1.5 ml
		MIR6005	5 x 1.5 ml
		MIR6006	10 x 1.5 ml

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