

Title	Cas9/gRNA targeted excision of cystic fibrosis-causing deep-intronic splicing mutations restores normal splicing of CFTR mRNA
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Publication date	2017
Original citation	Sanz, D. J., Hollywood, J. A., Scallan, M. F. and Harrison, P. T. (2017) 'Cas9/gRNA targeted excision of cystic fibrosis-causing deep-intronic splicing mutations restores normal splicing of CFTR mRNA', PLOS ONE, 12(9), e0184009 (13pp). doi: 10.1371/journal.pone.0184009
Type of publication	Article (peer-reviewed)
Link to publisher's version	http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0184009 http://dx.doi.org/10.1371/journal.pone.0184009 Access to the full text of the published version may require a subscription.
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Oligo Name	Sequence (5'>3')	Cloning site
<i>gRNA oligos cloning</i>		
g-in12U-1fw	caccgGAAACTGTGTACATTTTGAT	
g-in12U-1rv	aaacATCAAAATGTACACAGTTTCc	
g-in12U-2fw	caccgAGTATGCAAGAGCTACATAA	
g-in12U-2rv	aaacTTATGTAGCTCTTGCATACTc	
g-in12U-3fw	caccgGACTTTTTAAAGTTTTGCCAT	
g-in12U-3rv	aaacATGGCAAAACTTTAAAAGTCc	
g-in12D-1fw	caccgATGTACTTGAGATGTAAGTA	
g-in12D-1rv	aaacTACTTACATCTCAAGTACATc	
g-in12D-2fw	caccgTTACTCATACTTTCTTATT	
g-in12D-2rv	aaacAATAAGGAAAGTATGAGTAAc	
g-in12D-3	caccgTTATCTCATTCTATTAATA	
g-in12D-3rv	aaacTATTAATAGAAATGAGATAAc	
g-in19U-1	caccgTTTACTTGGCTACCAGAGAT	
g-in19U-1rv	aaacATCTCTGGTAGCCAAGTAAAc	
g-in19U-2	caccgAGTTACCCTCTTTTTTTACT	
g-in19U-2rv	aaacAGTAAAAAAGAGGGTAACTc	
g-in19D-1	caccgGTTATTTGCAGTGTTCCTA	
g-in19D-1rv	aaacTAGAAAACACTGCAAATAACc	
g-in19D-2	caccgTTTCTATGGAAATATTTTAC	
g-in19D-2rv	aaacGTGAAATATTTCCATAGAAAc	
g-in22U-1	caccgCATTTTAATACTGCAACAGA	
g-in22U-1rv	aaacTCTGTTGCAGTATTTAAATGc	
g-in22U-2	caccgCATCTGTTGCAGTATTTAAA	
g-in22U-2rv	aaacTTTTAATACTGCAACAGATGc	
g-in22U-3	caccgCTTGATTTCTGGAGACCACA	
g-in22U-3rv	aaacTGTGGTCTCCAGAAATCAAGc	
g-in22D-1	caccgTTGATCCAACATTCTCAGGG	
g-in22D-1rv	aaacCCCTGAGAATGTTGGATCAAc	
g-in22D-2	caccgATCCAACATTCTCAGGGAGG	
g-in22D-2rv	aaacCCTCCCTGAGAATGTTGGATc	
<i>Minigenes cloning primers</i>		
MGint12-int13FW	cacacactcgagTGTGTTGTCCAGTTTTGGATGA	<i>XhoI</i>
MGint12-int13RV	ctcacagctagcACTGGTTTAGCATGAGGCCGG	<i>NheI</i>
MGint18-int20FW	ctcactctcgagTGACTAGGAATAGAATGGGGAGAG	<i>XhoI</i>
MGint18-int20RV	cacacagctagcACAATGGAAATTCAAAGAAATCACT	<i>NheI</i>
MGint22-int23FW	cacacactcgagACAGTACTGGATAGTCCTCTGA	<i>XhoI</i>
MGint22-int23RV	cacacatctagaGCCTATGAGAAAAGTGCCTGG	<i>XbaI</i>
<i>Directed Mutagenesis</i>		

<i>Directed Mutagenesis</i>		
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MD1811+1.6kbA>Gfw (c.1679+1634A>G)	CCTATGTACTTGAGATGTAAGTAAGGTTACTATC	
MD1811+1.6kbA>Grv (c.1679+1634A>G)	GATAGTAACCTTACTTACATCTCAAGTACATAGG	
MD3272-26A>Gfw (c.3140-26A>G)	GTGTTTATGTTATTTGTCAGTGTTTTCTATGG	
MD3272-26A>Grv (c.3140-26A>G)	CCATAGAAAACACTGCAAATAACATAAACAC	
MD3849+10kbC>Tfw (c.3717-12191C>T)	CTGTTGCAGTATTAAAATGGtGAGTAAGACACCCTGAAAG	
MD3849+10kbC>Trv (c.3717-12191C>T)	CTTTCAGGGTGTCTTACTCaCCATTTTAATACTGCAACAG	
Sequencing Primers		
pspSEQfw	TCACAGTCTATTATGGGGTACGG	
pspSEQrv	AATTTCTGGGTCCCCTCCTGA	
pcas9SEQfw	GAGGGCCTATTTCCCATGATTCC	
pcas9SEQrv	GTCTGCAGAATTGGCGCAC	
pcas9tandemSEQfw	TTTGTGATGCTCGTCAGGGG	
pcas9tandemSEQrv	TGGAAAGTCCCTATTGGCGT	

Tandem gRNA Cloning		
pcas9TANDfw	CACACAGCTAGCGAGGGCCTATTTCCCATGATT	<i>NheI</i>
pcas9TANDrv	CACACATCTAGATCTAGCTCTAAAACAAAAAAGC	<i>XbaI</i>
Deletion Screening Primers		
in12Ufw	AAGAACAGAGTGTGGGGAAGA	
in12Drv	GCATTTTGTTCCTTGTAGTTTCAG	
in19Ufw	ACTCCCAGTGGTAGCCAAGA	
in19Drv	GCACGAAGTGTCCATAGTCCT	
in22Ufw	TCATTCAGTGGGTATAAGCAGCA	
in22Drv	GACATACCCTAAATCTAAGTCAGTG	
RT-PCR		
pspRTfw	TCTGAGTCACCTGGACAACC	
pspRTrv	ATCTCAGTGGTATTTGTGAGC	
RTex13rv	ACATCTAGGTATCCAAAAGGAGAGT	
RTex20rv	GCACGAAGTGTCCATAGTCCT	