				Mic	70hc	omc	·log)	/ SC	nem	e: S	sens	e/bı	CMC	Microhomology scheme: Sense/pCMVΔ, sgRNA B, Reverse strand	gRN	A B,	Re	vers	e st	ran	_												
		DSB																															
5 10 15	20 25 30 35 40 4	45 50 55	55 60	. 65	-2	75	- 80	-82	96	95 10	100 105	5 110	115	120	125 1	130 135	35 140	145	150	155	160	165 1	170 1	175 18	180 18	185 190	195	200	205	210	215	220	225
	DS Red										Intron																DS Red						
Primer	Exon2	Intron					Intron	Intron (branch site)	(e)							Intron	Ě								Exon1					L	Pri	Primer	
GGAAGTTCACGCCGATGAA	OGANOS COCATANA CETTO CONTINA CONTINATO A TOTAL OF THE TOTAL AND	CCTGTGGATA	AATAA	TACCAT	TIGIL	AGTAAA	AATTC	SAGCTC	GGTACC	000000	GATCCT	ACGCGT	CTAGAG	STCGACC	TGAGAA	AAGCCT	CCTTTA	GTCCA	TATTAR	CATAC	TGCAG	GGAGGA	GICCI	GGGTC	ACGGTC	SGCCAC	200000	GICCI	CGAAGT	TCATCA	Accccc	TCCCA	CTTGA
GGAAGTTCACGCCGATGAA	OGAAOTTOROGOGATGARAATAANAATAATAAAAAAAAAAAAAAAAAAAAAA	CCTGTGGATA	AATAA	TACCAT	TIGIL	AGTAL	AATTC	SAGCTC	GGTACC	000000	GATCCT	ACGCGT	CTAGAG	STCGACC	TGAGAA	AAGCCT	CCTTTA	GTCCA	TATTAR	CATAC	TGCAG	GGAGGA	GICCI	GGGTC	ACGGTC	SGCCAC	200000	GICCI	CGAAGI	TCATC	ACGCGC	TCCCA	CTTGA
GGAAGTTCACGCCGATGAA	OBAAGTICACGCGATBAACTICA <mark>CCT</mark> GATBABAGAGGCGTCCTGATBATAAAAAAAAAAAAAAAAA	CCTGTGGATA	AATAA	TACCAT	TIGIL	AGTAAL	AATTC	SAGCTC	GGTACC	000000	GATCCT	ACGCGT	CTAGAG	STCGACC	TGAGAA	AAGCCT	CCTTT	GTCCA	TATTAR	CATAC	TGCAG	GGAGGA	GICCI	GGGTC	ACGGTC	SGCCAC	000000	GICCI	CGAAGI	TCATCE	ACGCGC	TCCCA	CTTGA
GGAAGTTCACGCCGATGAA	OBANGETER COCTORIBA CITAR CONTRA CONT	CCTGTGGATA	AATAA	TACCAT	TIGIL	AGTAL	AATTC	SAGCTC	GGTACC	000000	GATCCT	ACGCGT	CTAGAG	STCGACC	TGAGAA	AAGCCT	CCTTTA	GTCCA	TATTAR	CATAC	TGCAG	GGAGGA	GICCI	GGGTC	ACGGTC	SGCCAC	228228	GICCI	CGAAGI	PTCATCA	Accccc	TCCCA	CTTGA
GGAAGTTCACGCCGATGAA	OGNAGITCE COGATORICATOR CONTINATOR AND	CCTGTGGATA	AATAA	TACCAT	TIGIL	AGTAL	AATTC	SAGCTC	GGTACC	000000	GATCCT	ACGCGT	CTAGAG	STCGACC	TGAGAA	AAGCCT	CCTTTA	GTCCA	TATTAR	CATAC	TGCAG	GGAGGA	GICCI	GGGTC	ACGGTC	SGCCAC	328228	GICCI	CGAAGI	TCATC	AcGCGC	TCCCA	CTTGA
GGAAGTTCACGCCGATGAA	OGANOSTICACOC GATABACTI <mark>CAC</mark> CTIGABADARABACAGCOCT CONTRANTALA CATTIGA GATABADARA TO GAGA GATO CONTRAGA GATO CONTRAG	CCTGTGGATA	AATAA	TACCAT	TIGIL	AGTAAL	LAATTC	SAGCTC	GGTACC	000000	GATCCT	ACGCGT	CTAGAG	STCGACC	TGAGAA	AAGCCT	CCTTTA	GTCCA	TATTAR	CATAC	TGCAG	GGAGGA	GICCI	GGGTC	ACGGTC	SGCCAC	000000	GICCI	CGAAGI	TCATC	Accccc	TCCCA	CTTGA
GGAAGTTCACGCCGATGAA	OBANGTICA COCTARANCITANCE AND	CCTGTGGATA	AATAA	TACCAT	TIGIL	AGTAL	AATTC	SAGCTC	GGTACC	000000	GATCCT	ACGCGT	CTAGAG	STCGACC	TGAGAA	AAGCCT	CCTTTA	GTCCA	TATTAR	CATAC	TGCAG	GGAGGA	GICCI	GGGTC	ACGGTC	GCCAC	200000	GICCI	CGAAGI	TCATC	Accccc	TCCCA	CTTGA
GGAAGTTCACGCCGATGAA	OGNAGITCE COGATORICAT CATORICA TO	CCTGTGGATA	AATAA	TACCAT	TIGIL	AGTAL	AATTC	SAGCTC	GGTACC	000000	GATCCT	ACGCGT	CTAGAG	STCGACC	TGAGAA	AAGCCT	CCTTTA	GTCCA	TATTAR	CATAC	TGCAG	GGAGGA	GICCI	GGGTC	ACGGTC	GCCAC	000000	GICCI	CGAAGI	TCATC	AcGCGC	TCCCA	CTTGA
GGAAGTTCACGCCGATGAA	OGNAGITCE COCTORIOR CITTARO CONTRA CONTINENTA CALITOR TA A BANARA TO A STATE OF THE CATOR OF THE	CCTGTGGATA	AATAA	TACCAT	TIGIL	AGTAAL	LAATTC	SAGCTC	GGTACC	000000	GATCCT	ACGCGT	CTAGAG	STCGACC	TGAGAA	AAGCCT	CCTTTA	GTCCA	TATTAR	CATAC	TGCAG	GGAGGA	GICCI	GGGTC	ACGGTC	SGCCAC	000000	GICCI	CGAAGI	TCATC	Accccc	TCCCA	CTTGA
GGAAGTTCACGCCGATGAA	OGRAGITER CEGERARA CITCA CETTERA CATARA CONTITION OF THE TRANSA CATARA CATARA CATARA CONTICA C	CCTGTGGATA	AATAA	TACCAT	TIGIL	AGTAAL	LAATTC	SAGCTC	GGTACC	000000	GATCCT	ACGCGT	CTAGAG	STCGACC	TGAGAA	AAGCCT	CCTTTA	GTCCA	TATTAR	CATAC	TGCAG	GGAGGA	GICCI	GGGTC	ACGGTC	SGCCAC	000000	GICCI	CGAAGI	TCATC	Accccc	TCCCA	CTTGA
GGAAGTTCACGCCGATGAA	OGAAOTTOCOCOÀTGAACITO <mark>COT</mark> GABAGAGOCOCOTOCATITOTA ANA ANA TACAOTTO GOTO TO TOTA GIANAA ANA TICAO COCOCOCO COCOCOCOCOCOCOCOCOCOCOCOCOC	CCTGTGGATA	AATAA	TACCAT	TIGIL	AGTAL	AATTC	SAGCTC	GGTACC	000000	GATCCT	ACGCGT	CTAGAG	STCGACC	TGAGAA	AAGCCT	CCTTTA	GTCCA	TATTAR	CATAC	TGCAG	GGAGGA	CICCI	GGGTC	ACGGTC	SGCCAC	300000	GICCI	CGAAGI	TCATC	Accccc	TCCCA	CTTGA
GGAAGTTCACGCCGATGAA	OGANOS CONTRANCITANO CONTRANCE OF THE TRANCES OF THE TRANCE OF THE TRANC	CCTGTGGATA	AATAA	TACCAT	TIGIL	AGTAL	AATTC	SAGCTC	GGTACC	000000	GATCCT	ACGCGT	CTAGAG	STCGACC	TGAGAA	AAGCCT	CCTTT	GTCCA	TATTAR	CATAC	TGCAG	GGAGGA	GICCI	GGGTC	ACGGTC	36CCAC	308008	GICCI	CGAAGI	TCATC	AcGCGC	TCCCA	CTTGA
GGAAGTTCACGCCGATGAA	GGAAGTTCACGCGATGATGAAGAAAAAAAAAAAAAAAAA	CCTGTGGATA	AATAA	TACCAT	TIGIL	AGTAAL	AATTC	SAGCTC	GGTACC	000000	GATCCT	ACGCGT	CTAGAG	STCGACC	TGAGAA	AAGCCT	CCTTT	GTCCA	TATTAR	CATAC	TGCAG	GGAGGA	GICCI	GGGTC	ACGGTC	SGCCAC	000000	GICCI	CGAAGI	TCATC	Accccc	TCCCA	CTTGA
GGAAGTTCACGCCGATGAA	OGANOS CONTRANCITANO REGION CONTRANCE OF THE TRANCE OF THE	CCTGTGGATA	AATAA	TACCAT	TIGIL	AGTAL	AATTC	SAGCTC	GGTACC	000000	GATCCT	ACGCGT	CTAGAG	STCGACC	TGAGAA	AAGCCT	CCTTT	GICCA	TATTAR	CATAC	TGCAG	GGAGGA	GICCI	GGGTC	ACGGTC	SGCCAC	300000	GICCI	CGAAGI	TCATC	Accccc	TCCCA	CTTGA
GGAAGTTCACGCCGATGAA	OGRAGITCACCCORTRANCITACCTICACCTICACCTICACTICATOR TARABATATOCATITGA OCTOTICA OTAGARAAAATTOCA OCTOTICA OCT	CCTGTGGATA	AATAA	TACCAT	TIGIL	AGTAL	AATTC	SAGCTC	GGTACC	000000	GATCCT	ACGCGT	CTAGAG	STCGACC	TGAGAA	AAGCCT	CCTTTL	GTCCA	TATTAR	CATAC	TGCAG	GGAGGA	GICCI	GGGTC	ACGGTC	36CCAC	308008	GICCI	CGAAGI	TCATC	AcGCGC	TCCCA	CTTGA
GGAAGTTCACGCCGATGAA	GGAAGTICACGCGATAAACTICA <mark>CCTTGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA</mark>	CCTGTGGATA	AATAA	TACCAT	TIGIL	AGTAAL	AATTC	SAGCTC	GGTACC	200000	GATCCT	ACGCGT	CTAGAG	STCGACC	TGAGAA	AAGCCT	CCTTTA	GTCCA	TATTAR	CATAC	TGCAG	GGAGGA	GICCI	GGGTC	ACGGTC	SGCCAC	300000	GICCI	CGAAGI	TCATCA	Accccc	TCCCA	CTTGA

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EI37R *

E129R * EI 30R * EI 32R * EI 35R * EI36R *

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EE2R * EE5R * EE BR * EE9R * EE10R * EIIR * E12R * EE13R * EI27R *

EE3R * TE4R * EE GR * ZE7R * EI31R * EI 33R * EI34R *