Primers Information

NCBI or Primer Bank/PE ID	Genes	Species	Primers (5'to)	Primers (3'to)
NM_000249.2	DMN3 (HNL)	human	gctacacgtgcaagatcgc	cacacgcagatcatcatgcg
31449543bp.1 (PE)	NOS1AP	human	tgcagctcagtcacctcgg	aaagctcagtcctgcttgg
10472939bp.1 (PE)	KDM7A2	human	ccgcgggtatttcgggtc	ctgccccatctgacgaacg
10472939bp.1 (PE)	KDM7A2	human	ccgcgggtatttcgggtc	ctgccccatctgacgaacg
NM_001039.4	NKX2-2	human	agcttcgacctcctcgcc	tgacctcgtgctcgtcgtc
151987115.1 (PE)	GL3	human	ccgcgcgtccatcgttcgg	ccatgctccctgctgctcct
NM_001416.4	NRF6	human	gcctgcgctcatgcgcag	tcgcctcgcacgtgcccac
NM_000789.3	EPB	human	ccagccgaagcgagtcac	ctagccatgccagttccc
NM_000142.3	Glucosinase	human	gctgggatcaatctctcgc	tctccacaggatgcagtc
NM_000207.2	INSULIN	human	cagcctttgtccaccacc	acagtacaggcagcagtg
NM_000558.4	HBA2	human	cgtcctgcctctctcctcc	ccccagccacgatgcctgg
NM_001508.3	GCHFR(GTP)	human	cgtcctgcctctctcctcc	ccccagccacgatgcctgg
NM_000039.1	ABC-1	human	gatgaaaatcaaagatcdt	cgaatctcaatgtcctaaag
NM_002168	IMPA1	human	tcccagcaatcaagatcdt	tcgaatctcctatcaatgcc
NM_002168.2	IMPA-2	human	atcatcagaatgatccagg	tccacatgcagtatttcc
NM_000195.3	ILTAA	human	ccgaacctgacctgctacc	aaaaagatcctctctgtc
NM_002505.4	NFUNDX1	human	gctctcagccagcagcacc	ctagcctttgcatcatcd
NM_001418.3	EEF1A (PE-1))	human	ccagcatgatcgatctcca	tcttgtccagtgactctcg
NM_001002.3	CRAM2 (PE-PD)	human/mouse	gatgctgcgggcaagcac	agtcccctggtgggcac
NM_000558.4	HBA2 (PE-1)	human	cgtcctgcctctctcctcc	ccccagccacgatgcctgg
NM_001142750.1	Krt1p (HPL)	mouse	gcaaggcatctcdaagag	gactggcagctgatctctc
NM_009443.2	Crabp2	mouse	cctgcctggatcgcaaga	gcaagcctgccccaaggc
NM_008436.3	Bdkrb	mouse	tcagccctgcaagcgcdg	tcgccccgactctccctcc
NM_133566.4	Mafa2	mouse	gatcccagctctctggaa	gatcccacgcccccaagc

Antibody

Antibody Name	Cross Species	Host	Clonality	Applications	Company	Catalog
Insulin	Human, Mouse, Rat	Guinea	Polyclonal	IHC	Abcam	ab7842
c-peptide	Human, Mouse	Guinea	Polyclonal	IHC	abcam	ab30047
Glucagon	Human, Mouse, Rat	Mouse	Monoclonal	IHC	abcam	ab10988
somatostatin	Human, Mouse, Rat	Rabbit	Polyclonal	IHC	abcam	ab103798
Pancreatic Polypeptide	Human	Rabbit	Polyclonal	IHC	abcam	ab113850
NKX6-2	Human, Mouse, Rat, Chiken	Chiken	Monoclonal	IHC	Dsmb	74.5A5
NKX2-2	Human, Mouse, Rat	Mouse	Monoclonal	IHC	Dsmb	74.5A5
MAFA	Human, Mouse	Rabbit	Polyclonal	IHC/flow cytometry	Novus Biologicals	NB600-137
MAFB	Human, Mouse, Rat	Rabbit	Polyclonal	IHC/flow cytometry	abcam	ab66956
PDX-1	Human, Mouse	Goat	Polyclonal	IHC	R&D Systems	AF2419
Chromogranin A	Human, Mouse, Monkey	Rabbit	Polyclonal	IHC	abcam	ab15160
Synaptophysin	Human	Mouse	Monoclonal/Polyclonal	IHC	Biolegend	905307-10
PD-L1 antybody	Human	Rabbit	Monoclonal	IHC	abcam	ab205921
CD45 (Pan Leukocyte)	Human	Mouse	Monoclonal/Polyclonal	Flow cytometry	BD Bioscience	560178
MHC I (HLA-ABC)	Human, Mouse	Mouse	Monoclonal/Polyclonal	Flow cytometry	BD Bioscience	560168
MHC I PE	Human, Mouse	Mouse	Monoclonal/Polyclonal	Flow cytometry	BD Bioscience	562101
anti-mouse CD45-510	Mouse	Rat	Monoclonal	Flow cytometry	Biolegend	103138
anti-mouse CD3-450	Mouse	Rat	Monoclonal	Flow cytometry	Biolegend	100329
anti-mouse CD19 PerCP/Cy5	Mouse	Rat	Monoclonal	Flow cytometry	Biolegend	115539
anti-mouse NK1.1-PE	Mouse	Mouse	Monoclonal	Flow cytometry	Miltenienue	12-5941-82
anti-mouse F4/80-APC	Mouse	Rat	Monoclonal	Flow cytometry	Miltenienue	17-4771-82
anti-human CD45-510	Human	Mouse	Monoclonal	Flow cytometry	Biolegend	368526
anti-human CD3-450	Human	Mouse	Monoclonal	Flow cytometry	Biolegend	317325
anti-human CD4-PE/Cy7	Human	Rat	Monoclonal	Flow cytometry	Biolegend	357410
anti-human CD8-FITC	Human	Mouse	Monoclonal	Flow cytometry	Biolegend	368516
anti-human CD19 PerCP/Cy5	Human	Mouse	Monoclonal	Flow cytometry	Biolegend	392104

Plasmid Information

Name	Name (Genes)	Catalog No	Species	Character	Sequence Primer Pac/Rz
AAV vector	EGFP (PG-1)-Lentivirus Vector	Gen-Ch13780	human	Overexpression	F: GATCCAAGCTGCAATCATCTCCTT (forward) and 3'-VOC1 FETCTCAAGATAATTCCTCCCTT (reverse)
AAV vector	CHIP-Diony regulator	Accelerate	human	Activity regulator	

CRISPR

Sequence Name	Vector	Sequence
human insulin guide 1	pCas-Guide-EF1a-GFP vector (Origene 30000)B	ATGGTTGACGCTGTCGATA
human insulin guide 2	pCas-Guide-EF1a-GFP vector (Origene 30000)B	CTGTTGTGTTCATCAGGA
Left Arm	ابدأ من هنا PCR الحمض النووي	TTCAAGCAGAATTGGCAGTGTGTTTCTCACACGTCCTCAGGCCGGATCCTGGTCCTCCTTCTGCTCTCTCTTCTCTTCTCTC