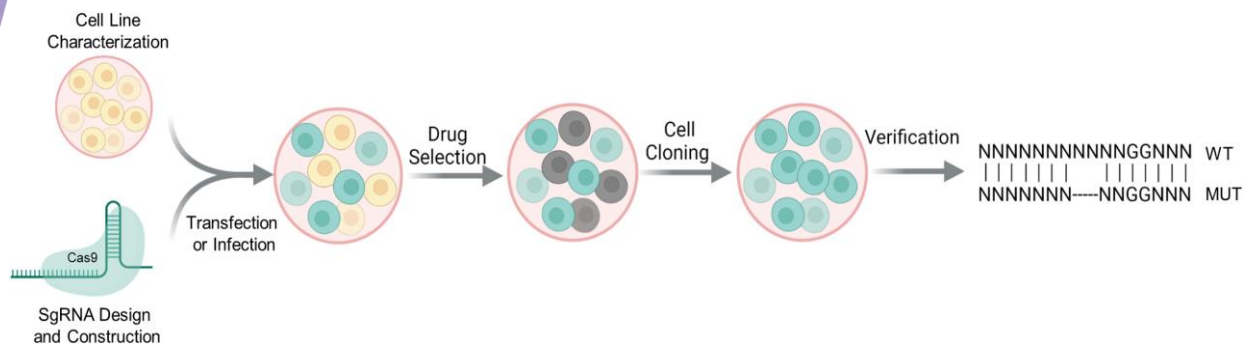


Gene Knockout Stable Cell Lines

Tel: 1-631-626-9181 (US) | 44-208-123-7131 (EU) | Email: info@creative-biogene.com
SUITE 115, 17 Ramsey Road, Shirley, NY 11967, USA



Gene knockout stable cell lines are powerful and versatile tools to help understand the mechanisms of disease and validate potential therapeutic targets. Knockout cell lines help elucidate phenotype-genotype relationships. **CRISPR/Cas9** is a revolutionary technology in the field of gene engineering. It has expedited the course of biopharmaceutical research and drug discovery, by providing scientists with a versatile tool to knockout any gene, in any cell and without introducing foreign DNA. Comparing with the previous methods (like ZFN and TALENs), CRISPR/Cas system is much simpler to implement and has higher efficiency at performing gene modifications.



Creative Biogene provides a one-stop service for knockout cell line generation, covering from gRNA design, pool cell generation to single clone cell selection and validation. With years of experience, our scientists have succeeded in generating gene knockout cell lines in different cell types, like tumor cell line, stem cells and immortalized primary cells. We provide a series of pre-made and made-to-order knockout products to accelerate your research progress. At the same time, we also provide custom services to meet different needs.

Features

1. Gene knockout in different tumor cells
2. Gene knockout in primary T cells
3. Gene knockout in iPSC or Stem cells
4. Non-coding gene deletion in different cells
5. Whole gene deletion or frame-shift mutation

Our Advantages

1. Robust cell line development platforms & Excellent scientific teams
2. Flexible gene delivery methods: Liposome transfection, Electroporation and Lentivirus transduction
3. Multiple available edits: Single gene KO; Multiplexed gene KO; Fragment deletion
4. Comprehensive quality control
5. Covering a large broad of gene targets in different host cells

Quality Control

1. All knockout cell products are validate at the genomic level with Sanger sequencing to ensure the desired edit.
2. All cell products are mycoplasma-free and without bacteria/Fungi contamination.
3. Cell viability test

Applications

1. Studying gene functions
2. Used as screening tools in the development of drugs
3. Validating potential therapeutic targets

Please contact us at **1-631-626-9181** or info@creative-biogene.com for more information.

CD47 Knockout Stable Cell Line

CSC-RT0483 CD47 Knockout Cell Line-HEK293T

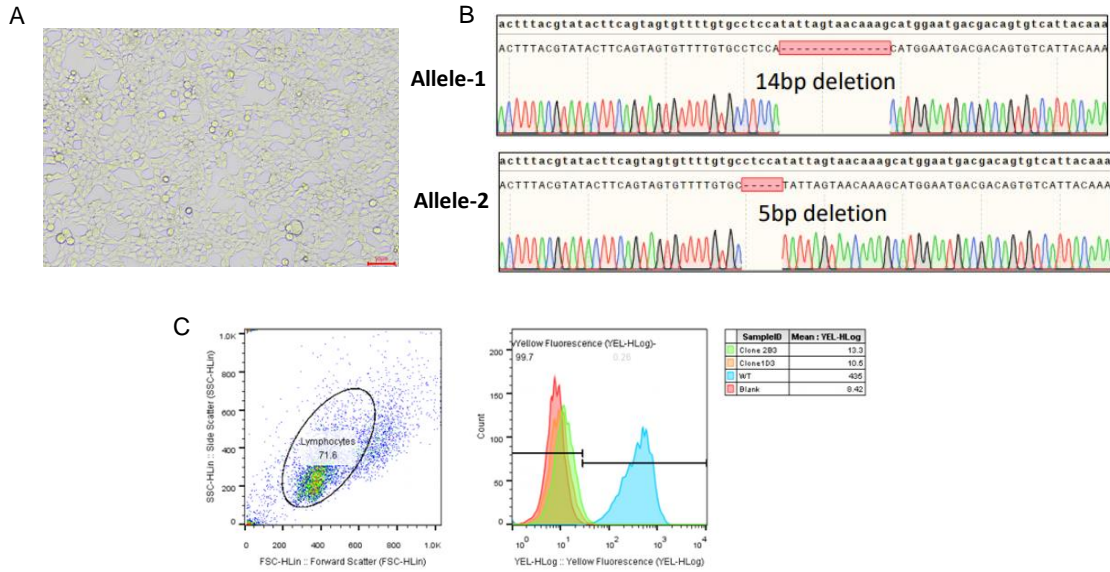


Figure 1. (A) CD47 Knockout Cell Line-HEK293T. (B) Cleavage site sequencing analysis. (C) Flow cytometry analysis.

CSC-RT2758 CD47 Knockout Cell Line-K562

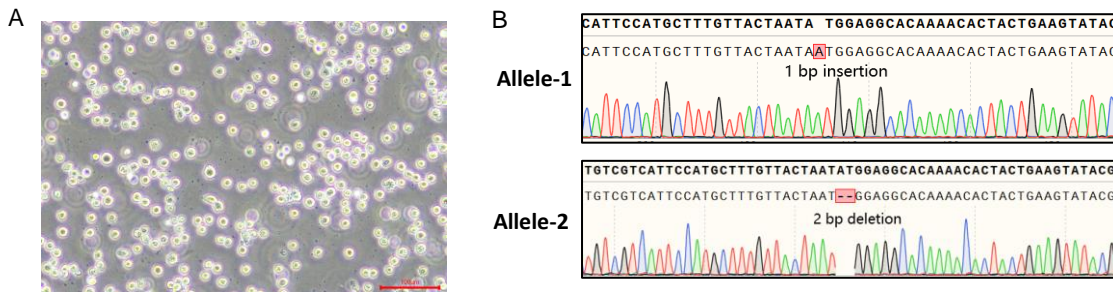


Figure 2. (A) CD47 Knockout Cell Line-K562. (B) Cleavage site sequencing analysis.

CSC-RT2698 CD47 Knockout Cell Line-MC38

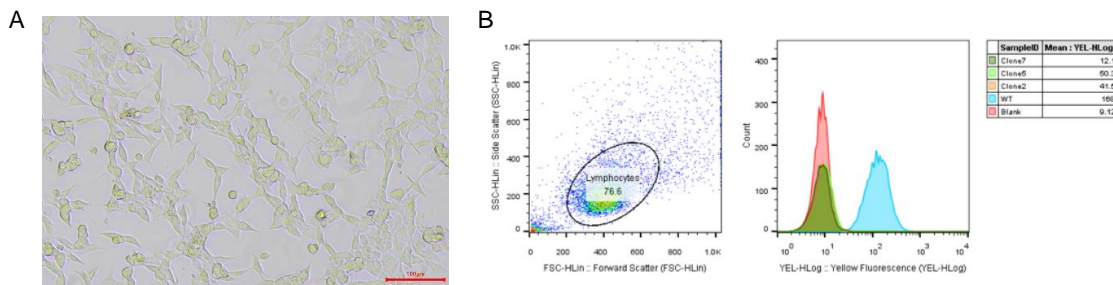


Figure 3. (A) Cd47 Knockout Cell Line-MC38. (B) Flow cytometry analysis.

□ B2M Knockout Stable Cell Line

CSC-RT2085 B2M Knockout Cell Line-Jurkat

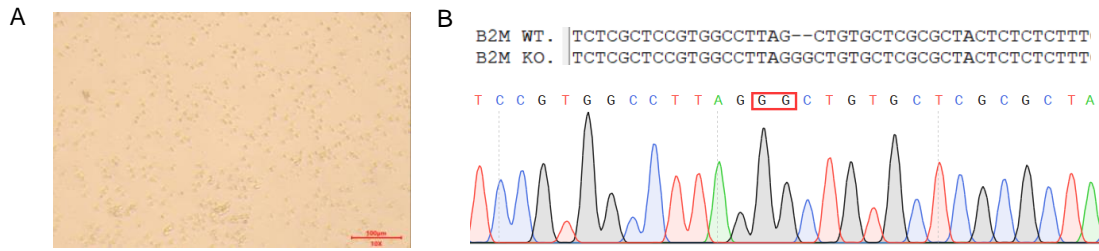


Figure 4. (A) B2M Knockout Cell Line-Jurkat. (B) Cleavage site sequencing analysis.

CSC-RT2725 B2M Knockout Cell Line-K562

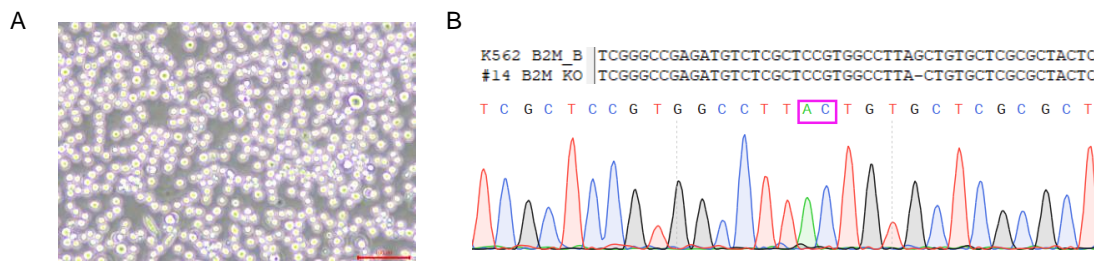


Figure 5. (A) B2M Knockout Cell Line-K562. (B) Cleavage site sequencing analysis.

CSC-RT2755 B2m Knockout Cell Line-MC38

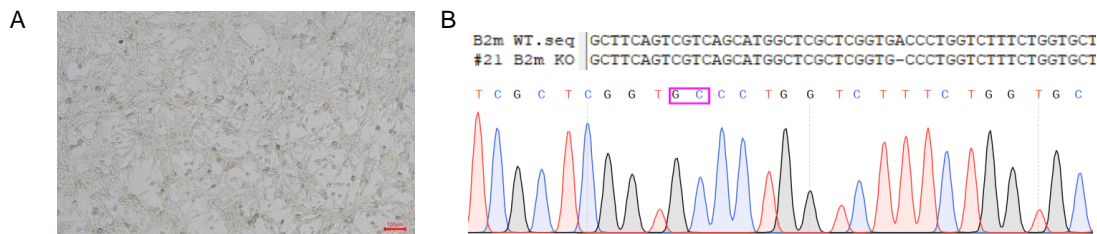


Figure 6. (A) B2m Knockout Cell Line-MC38. (B) Cleavage site sequencing analysis.

□ Other Gene Knockout Stable Cell Lines

CSC-RT1976 CRBN Knockout Cell Line-HEK293T

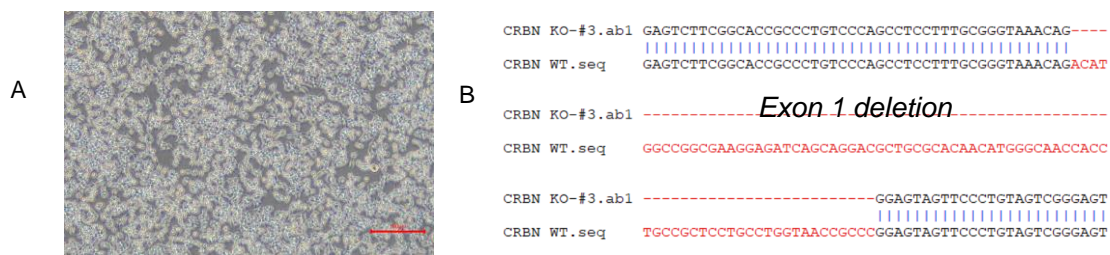


Figure 7. (A) CRBN Knockout Cell Line-HEK293T. (B) Cleavage site sequencing analysis.

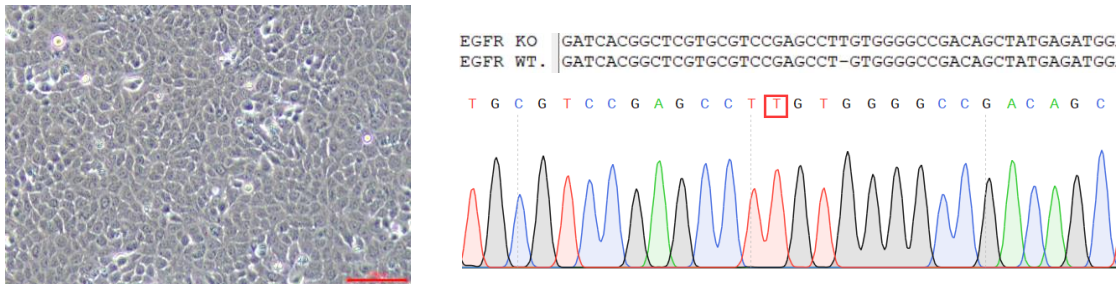


Figure 8. (A) Human EGFR Knockout Cell Line-A549. (B) Cleavage site sequencing analysis.

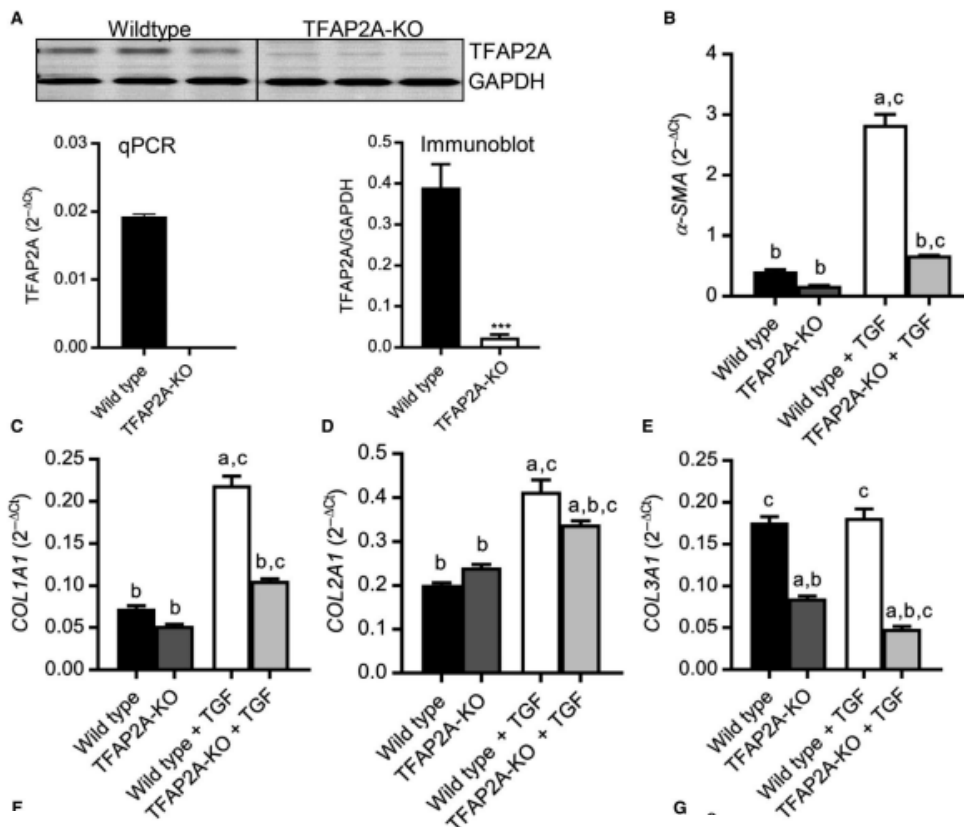


Figure 9. Deletion of TFAP2A gene significantly reduces TGF-β1-induced fibroblast differentiation. (A) CRISPR/Cas9-based gene editing in NIH/3T3 fibroblasts deleted the TFAP2A expression, as validated by pooled Real-time PCR and immunoblotting. (B-E) Gene expression of α-smooth muscle actin (α-SMA), collagen (COL) 1A1 (COL1A1), COL2A1, and COL3A1 were quantitatively analysed by real-time PCR in wild-type and TFAP2A-KO fibroblasts. (Ross GR, J Cell Mol Med, 2019)

Product List

Cat. No.	Product Name	Target	Cell Type
CSC-RT0035	Human CDK2 Knockout Cell Line-HCT116	CDK2	HCT116
CSC-RT0067	Human DNMT3B Knockout Cell Line-HCT116	DNMT3B	HCT116
CSC-RT0101	Human SLC1A5 Knockout Cell Line-HEK293	SLC1A5	HEK293
CSC-RT0369	Human TP53 Knockout Cell Line-HEK293T	TP53	HEK293T
CSC-RT0445	Human MAPK14 Knockout Cell Line-HEK293T	MAPK14	HEK293T
CSC-RT0467	Human BRD4 Knockout Cell Line-HEK293T	BRD4	HEK293T
CSC-RT0470	Human DNMT1 Knockout Cell Line-HEK293T	DNMT1	HEK293T
CSC-RT0483	Human CD47 Knockout Cell Line-HEK293T	CD47	HEK293T
CSC-RT0493	Human B2M Knockout Cell Line-HEK293T	B2M	HEK293T
CSC-RT0505	Human SDC1 Knockout Cell Line-Hela	SDC1	Hela
CSC-RT0516	Human MDM2 Knockout Cell Line-Hela	MDM2	Hela
CSC-RT0517	Human HIF1A Knockout Cell Line-Hela	HIF1A	Hela
CSC-RT0518	Human KRAS Knockout Cell Line-Hela	KRAS	Hela
CSC-RT0560	Human IGF1R Knockout Cell Line-Hela	IGF1R	Hela
CSC-RT0573	Human NOTCH2 Knockout Cell Line-Hela	NOTCH2	Hela
CSC-RT0606	Human DMD Knockout Cell Line-Hela	DMD	Hela
CSC-RT0748	MECP2 Knockout Cell Line-Hela	MECP2	Hela
CSC-RT0838	Human SIK2 Knockout Cell Line-Hela	SIK2	Hela
CSC-RT1113	Human PARP1 Knockout Cell Line-Hela	PARP1	Hela
CSC-RT1202	Human APOE Knockout Cell Line-HEK293T	APOE	HEK293T
CSC-RT1286	Human TNFRSF1A Knockout Cell Line-HeLa	TNFRSF1A	Hela
CSC-RT1457	Human TREX1 Knockout Cell Line-Hela	TREX1	Hela
CSC-RT1517	Human PTGS2 Knockout Cell Line-Hela	PTGS2	Hela
CSC-RT1698	Human LRRK2 Knockout Cell Line-HeLa	LRRK2	Hela
CSC-RT1762	HMGB1 Knockout Cell Line-Hela	HMGB1	Hela
CSC-RT1765	DAPK1 Knockout Cell Line-HEK293T	DAPK1	HEK293T
CSC-RT1847	Human USP7 Knockout Cell Line-HEK293T	USP7	HEK293T

Product List

Cat. No.	Product Name	Target	Cell Type
CSC-RT1868	PARK2 Knockout Cell Line-Hela	PARK2	Hela
CSC-RT1891	TFRC Knockout Cell Line-Hela	TFRC	Hela
CSC-RT1976	CRBN Knockout Cell Line-HEK293T	CRBN	HEK293T
CSC-RT2085	B2M Knockout Cell Line-Jurkat	B2M	Jurkat
CSC-RT2315	PDCD Knockout Cell Line-Jurkat	PDCD	Jurkat
CSC-RT2398	Human FOXO4 Knockout Cell Line-Hela	FOXO4	Hela
CSC-RT2588	Human EGFR Knockout Cell Line-A549	EGFR	A549
CSC-RT2611	Human PKD2 Knockout Cell Line-HEK293	PKD2	HEK293
CSC-RT2612	PKD1/PKD2 Knockout Cell Line-HEK293	PKD1/PKD2	HEK293
CSC-RT2615	TREX1 Knockout Cell Line-HEK293	TREX1	HEK293
CSC-RT2616	Lats2 Knockout Cell Line-4T1	Lats2	4T1
CSC-RT2617	Tfap2a Knockout Cell Line-NIH3T3	Tfap2a	NIH3T3
CSC-RT2624	B2m Knockout Cell Line-NIH3T3	B2m	NIH3T3
CSC-RT2625	Human BRCA2 Knockout Cell Line-LNCaP	BRCA2	LNCaP
CSC-RT2645	Human LDLR Knockout Cell Line-HEK293T	LDLR	HEK293T
CSC-RT2688	Human ACE2 Knockout Cell Line-HEK293T	ACE2	HEK293T
CSC-RT2698	Mouse Cd47 Knockout Cell Line-MC38	Cd47	MC38
CSC-RT2699	Human CD47 Knockout Cell Line-Jurkat	CD47	Jurkat
CSC-RT2700	Human TNFRSF1A Knockout Cell Line-HEK293	TNFRSF1A	HEK293
CSC-RT2701	Human MTAP Knockout Cell Line-HCT116	MTAP	HCT116
CSC-RT2704	Human TP53 Knockout Cell Line-MV-4-11	TP53	MV-4-11
CSC-RT2706	Human CRBN Knockout Cell Line-HEK293	CRBN	HEK293
CSC-RT2707	Fut8 Knockout Cell Line-CHO K1	Fut8	CHO K1
CSC-RT2708	SLC40A1 Knockout Cell Line-HEK293	SLC40A1	HEK293
CSC-RT2709	Human FAS Knockout Cell Line-PANC-1	FAS	PANC-1
CSC-RT2710	Human DNMT3B Knockout Cell Line-HEK293T	DNMT3B	HEK293T
CSC-RT2711	Human DNMT1/3B Knockout Cell Line-HEK293T	DNMT1/3B	HEK293T

Product List

Cat. No.	Product Name	Target	Cell Type
CSC-RT2712	Human CNR2 Knockout Cell Line-HEK293T	CNR2	HEK293T
CSC-RT2714	Human VHL Knockout Cell Line-HEK293T	VHL	HEK293T
CSC-RT2715	Human VHL Knockout Cell Line-A549	VHL	A549
CSC-RT2717	Human CRBN Knockout Cell Line-A549	CRBN	A549
CSC-RT2718	Human MDM2 Knockout Cell Line-HEK293T	MDM2	HEK293T
CSC-RT2719	Human MDM2 Knockout Cell Line-SKOV-3	MDM2	SKOV-3
CSC-RT2720	Human SDCBP Knockout Cell Line-Hela	SDCBP	Hela
CSC-RT2721	Human CALR Knockout Cell Line-HEK293	CALR	HEK293
CSC-RT2725	Human B2M Knockout Cell Line-K562	B2M	K562
CSC-RT2729	Mouse CD274/CD47 Double Knockout Cell Line-MC38	CD274/CD47	MC38
CSC-RT2739	Human NECTIN4 Knockout Cell Line-HEK293T	NECTIN4	HEK293T
CSC-RT2740	Human OGG1 Knockout Cell Line-HEK293T	OGG1	HEK293T
CSC-RT2741	Human GALT Knockout Cell Line-HEK293T	GALT	HEK293T
CSC-RT2742	Human CDK4 Knockout Cell Line-HCT116	CDK4	HCT116
CSC-RT2744	Human CD46 Knockout Cell Line-HEK293T	CD46	HEK293T
CSC-RT2745	Human STAT1 Knockout Cell Line-HEK293	STAT1	HEK293
CSC-RT2753	Human CFTR Knockout Cell Line-HEK293T	CFTR	HEK293T
CSC-RT2754	Human RIOX2 Knockout Cell Line-HEK293T	RIOX2	HEK293T
CSC-RT2755	Mouse B2m Knockout Cell Line-MC38	B2m	MC38
CSC-RT2756	Human TREM2 Knockout Cell Line-HEK293T	TREM2	HEK293T
CSC-RT2757	Human CD47/B2M Knockout Cell Line-K562	CD47/B2M	K562
CSC-RT2758	Human CD47 Knockout Cell Line-K562	CD47	CD47
CSC-RT2759	Human CXCL11 Knockout Cell Line-A549	CXCL11	A549
CSC-RT2760	Human TP53 Knockout Cell Line-MOLM13	TP53	MOLM13
CSC-RT2769	Human EGFR Knockout Cell Line-HEK293T	EGFR	HEK293T
CSC-RT2771	Human ATM Knockout Cell Line-HEK293T	ATM	HEK293T
CSC-RT2772	Human ATM Knockout Cell Line-Hela	ATM	Hela

Product List

Cat. No.	Product Name	Target	Cell Type
CSC-RT2773	Human DMD Knockout Cell Line-HEK293T	DMD	HEK293T
CSC-RT2774	Human CACFD1 Knockout Cell Line-HEK293T	CACFD1	HEK293T
CSC-RT2775	Human WRN Knockout Cell Line-HEK293T	WRN	HEK293T
CSC-RT2777	Human TNFRSF1A Knockout Cell Line-A549	TNFRSF1A	A549
CSC-RT2778	Human MC4R Knockout Cell Line-Hela	MC4R	Hela
CSC-RT2779	DHFR Knockout Cell Line-CHO K1	DHFR	CHO K1
CSC-RT2780	Human LRRK2 Knockout Cell Line-Jurkat	LRRK2	Jurkat
CSC-RT2781	Human LRRK2 Knockout Cell Line-HEK293T	LRRK2	HEK293T
CSC-RT2783	Human NYNRIN Knockout Cell Line-PC3	NYNRIN	PC3
CSC-RT2784	Human NDP Knockout Cell Line-PC3	NDP	PC3
CSC-RT2786	Human CD80/CD86 Double Knockout Cell Line-293T	CD80/CD86	HEK293T

Publications

1. Baguet, Tristan et al. "Radiosynthesis, in vitro and preliminary in vivo evaluation of the novel glutamine derived PET tracers [¹⁸F]fluorophenylglutamine and [¹⁸F] fluorobiphenylglutamine." Nuclear medicine and biology vol. 86-87 (2020): 20-29. doi:10.1016/j.nucmedbio.2020.03.006 [SLC1A5 Knockout Cell Line-HEK293](#)
2. Baguet T, Bouton J et al. "Radiosynthesis, in vitro and preliminary biological evaluation of [¹⁸F]2-amino-4-((2-((3-fluorobenzyl)oxy)benzyl)(2-((3-(fluoromethyl)benzyl)oxy)benzyl)amino)butanoic acid, a novel alanine serine cysteine transporter 2 inhibitor-based positron emission tomography tracer." J Labelled Comp Radiopharm. 2020 Aug;63(10):442-455. doi:10.1002/jlcr.3863 [SLC1A5 Knockout Cell Line-HEK293](#)
3. Ross, Gracious R et al. "Deletion of transcription factor AP-2 α gene attenuates fibroblast differentiation into myofibroblast." Journal of cellular and molecular medicine vol. 23,9 (2019): 6494-6498.doi:10.1111/jcmm.14421 [TFAP2A Knockout Cell Line-NIH 3T3](#)



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