
Table S3 The targets list of Niaoduqing

	Target
1	HSD11B1
2	HSD11B2
3	YWHAG
4	HPGD
5	HSD17B14
6	CYP27B1
7	PSMD3
8	PSMB1
9	HSD3B1
10	HSD3B2
11	HSD17B7
12	PDPK1
13	HTR1A
14	HTR1B
15	HTR2A
16	HTR2C
17	HTR3A,
18	ALOX5AP
19	PFKFB3
20	PGD
21	NUDT1
22	MMP2
23	HSPA5
24	CHRNA1
25	ACHE
26	ACACA
27	ACACB
28	SLC33A1
29	ASAH1
30	FGF1
31	CHIA
32	AHSA1
33	CES1
34	SOAT1
35	SCD
36	LYPLA2
37	ADAM10
38	ADAM17
39	ADAM9
40	ADAMTS4
41	ADAMTS5

42 ADORA1
43 ADORA2A
44 ADORA2B
45 ADORA3
46 ADA
47 ADK
48 ADCY10
49 ADCY2
50 ADCY5
51 ADRA2C
52 ADRB2
53 ADH1B
54 ADH1C
55 ADH1A
56 ALDH2
57 ALDH1A1
58 ALDH3A1
59 AKR1A1
60 AKR1B10
61 AKR1C1
62 AKR1C2
63 AKR1C3
64 AKR1C4
65 AKR1B1
66 ALK
67 ALPL
68 FUT7
69 ADRA1A
70 ADRA1B
71 ADRA1D
72 ADRA2A
73 ADRA2B
74 ALKBH3
75 FTO
76 FUCA1
77 MAOA
78 MAOB
79 AOC3
80 RNPEP
81 ANPEP
82 AMPD1
83 AMPD2
84 AMPD3
85 AMY1A

86 APP
87 FAAH
88 AR
89 ACE
90 EBP
91 DHCR7
92 SLPI
93 APOD
94 BAX
95 BCL2
96 BCL2L1
97 ALOX12
98 ALOX15
99 ALOX15B
100 ALOX5
101 ARG1
102 AHR
103 NAT1
104 DNPEP
105 ATP5F1E
106 ABCG2
107 ACLY
108 KCNJ1
109 AURKAIP1
110 ENPP2
111 CTNNB1
112 XIAP
113 BIRC5
114 FGF2
115 BAD
116 BCL2A1
117 BACE2
118 ADRB1
119 ADRB3
120 ST6GAL1
121 GBA
122 GBA2
123 GUSB
124 DPEP1
125 BACE1
126 OGA
127 NR1H4
128 SLC10A1
129 BRS3

130 BMP1
131 BDKRB1
132 BDKRB2
133 ADCY1
134 BAZ2A
135 BAZ2B
136 BRD2
137 BRD3
138 BRD4
139 BCHE
140 C5AR1
141 CALCRL
142 CALCR
143 CASR
144 KCNMA1
145 CALM1
146 CAPN1
147 CAPN2
148 CAMK2D
149 CAMK2B
150 CAMKK2
151 PRKACA
152 PKIA
153 CNR1
154 CNR2
155 CA1
156 CA2
157 CA3
158 CA4
159 CA9
160 CA5A
161 CA5B
162 CA6
163 CA7
164 CA12
165 CA13
166 CA14
167 CBR1
168 CES2
169 CPB1
170 CSNK1A1
171 CSNK1D
172 CSNK1G1
173 CSNK1G2

174	CSNK2A1
175	CSNK2A2
176	CASP1
177	CASP2
178	CASP3
179	CASP6
180	CASP7
181	CASP8
182	CASP9
183	CAT
184	COMT
185	CTSB
186	CTSH
187	CTSV
188	CTSD
189	CTSF
190	CTSG
191	CTSK
192	CTSL
193	CTSS
194	CAV1
195	CCR1
196	CCR4
197	CCR5
198	CCR9
199	CXCL2
200	CD40LG
201	CD44
202	CD81
203	CDC7
204	CISD1
205	CCNA2
206	CCNE1
207	CCNC
208	CDK9
209	CDK1
210	CDK2
211	CDK4
212	CDK8
213	TP53
214	UGCG
215	PRKG2
216	PDE3A
217	CCKAR

218	CCKBR
219	CMA1
220	CTRC
221	CTRB1
222	MAPK8
223	MAPK9
224	MAPK10
225	CLDN4
226	ST3GAL3
227	F7
228	F3
229	F8
230	F10
231	F11
232	F13A1
233	COL1A1
234	COL3A1
235	CFD
236	SERPINA6
237	CRHR1
238	CRP
239	CREBBP
240	CX3CR1
241	CXCR3
242	CXCL10
243	CXCL11
244	CCNT1
245	CCNB3
246	CCNE2
247	CCND3
248	CCND1
249	CDK5R1
250	CDK5
251	CDK6
252	CDK7
253	CDKN1A
254	CDKN2A
255	PTGS1
256	PTGS2
257	CYSLTR1
258	CFTR
259	LNPEP
260	UQCRB
261	CYP11B1

262 CYP11B2
263 CYP17A1
264 CYP19A1
265 CYP1A2
266 CYP1B1
267 CYP24A1
268 CYP26A1
269 CYP2C19
270 CYP2C9
271 CYP2D6
272 CYP3A4
273 CYP51A1
274 PLA2G4A
275 DRD5
276 DRD2
277 DAO
278 DCAF5
279 DAPK1
280 DAPK2
281 DAPK3
282 OPRD1
283 DCK
284 DGAT1
285 DHFR
286 DHODH
287 QDPR
288 CTSC
289 DPP7
290 DPP4
291 DPP9
292 DPP8
293 DNMT1
294 DNMT3A
295 ERCC5
296 POLA1
297 POLB
298 RAD51
299 TOP1
300 TOP2A
301 APEX1
302 MPG
303 PRKDC
304 DRD1
305 DRD3

306 DRD4
307 SLC6A3
308 DUOX2
309 DSTYK
310 MAP2K1
311 MAP2K2
312 MAP2K3
313 MAP2K4
314 CDC25A
315 CDC25B
316 CDC25C
317 CLK2
318 CLK3
319 CLK4
320 TTK
321 DUSP1
322 DUSP3
323 DYRK1B
324 CLK1
325 DYRK1A
326 DUT
327 DNM1
328 MDM2
329 EGLN1
330 ELAVL1
331 HSP90B1
332 EPAS1
333 EDNRA
334 EDNRB
335 EDN1
336 ECE1
337 EPHB4
338 EPHB6
339 EPHA1
340 EPHA2
341 EPHA3
342 EPHA4
343 EPHA5
344 EPHA6
345 EPHA7
346 EPHA8
347 EPHB1
348 EPHB2
349 EPHB3

350 EGFR
351 EPHX2
352 EPHX1
353 SLC29A1
354 SELE
355 HSD17B1
356 HSD17B2
357 HSD17B3
358 ESR1
359 ESR2
360 SULT1E1
361 ESRRA
362 ESRRB
363 ELK1
364 EIF4A1
365 EIF2AK1
366 EIF2AK3
367 EIF6
368 SLC1A3
369 XPO1
370 EED
371 EZH2
372 RBBP4
373 EZR
374 FABP4
375 FABP5
376 FABP2
377 FABP3
378 FADS1
379 FASN
380 FABP1
381 FAP
382 FGFR1
383 FGFR3
384 FKBP1A
385 FEN1
386 PTK2
387 FOSL1
388 FOSL2
389 FFAR1
390 FFAR2
391 FBP1
392 FUT4
393 PTGDR2

394 GRK6
395 GRK7
396 CCNB1
397 GABRA2
398 GABRA1
399 GABRA3
400 GABRA5
401 GABRB3
402 GABRG2
403 GABBR2
404 GABBR1
405 LGALS3
406 LGALS4
407 LGALS8
408 LGALS9
409 GABRE
410 GABRG3
411 GABRA6
412 PSEN2
413 GJA1
414 PGGT1B
415 GCGR
416 NR3C1
417 G6PD
418 GRIN2A
419 GRIN1
420 GRIA2
421 GRIK1
422 GRIK2
423 GLUL
424 QPCT
425 GSTM1
426 GSTM2
427 GSTP1
428 GLRA1
429 GLRA2
430 SLC6A9
431 PYGM
432 GSK3A
433 GSK3B
434 GLO1
435 GPBAR1
436 GPER1
437 GPR35

438 GPR55
439 GRK2
440 PLA2G10
441 HSPA8
442 HSF1
443 HSP90AB1
444 HSP90AA1
445 PTPN22
446 HPGDS
447 HMOX1
448 HPSE
449 MET
450 HNF4A
451 KCNH2
452 HK1
453 HK2
454 GCK
455 HRH1
456 HRH2
457 HRH3
458 HRH4
459 EP300
460 KAT2B
461 HDAC1
462 HDAC10
463 HDAC11
464 HDAC2
465 HDAC3
466 NCOR2
467 HDAC4
468 HDAC5
469 HDAC6
470 HDAC7
471 HDAC8
472 HDAC9
473 HMGCR
474 NKX3-1
475 HIPK4
476 LIPE
477 HAS2
478 HAO1
479 HAO2
480 HCAR2
481 HIF1A

482 IGHG1
483 SLC10A2
484 IER3IP1
485 FCER2
486 IDO1
487 MCL1
488 CHUK
489 IKBKB
490 IKBKE
491 IMPDH1
492 IMPDH2
493 INSR
494 IGFBP3
495 IGF1R
496 IGF2
497 ITGA4
498 ITGB1
499 ITGA2B
500 ITGAV
501 ITGB5
502 ITGB3
503 ITGAL
504 ICAM1
505 IFNG
506 IRF1
507 IL1A
508 IL1B
509 IRAK4
510 IL10
511 IL2
512 IL4
513 IL6
514 IL6ST
515 CXCL8
516 CXCR1
517 CXCR2
518 MMP1
519 IDH1
520 IARS
521 ICMT
522 JAK3
523 KLK1
524 KLK2
525 OPRK1

526 RET
527 KIF11
528 NUF2
529 KLF7
530 LDLR
531 LAP3
532 LRRK2
533 SELL
534 PTPRC
535 ELANE
536 LTA4H
537 LTB4R
538 LIMK1
539 LIMK2
540 LBP
541 PYGL
542 LDHA
543 LDHB
544 SLC27A1
545 SLC5A4
546 ACP1
547 NR1H3
548 NR1H2
549 CD38
550 KDM3A
551 KDM4C
552 KDM4E
553 KDM5B
554 KDM1A
555 GAA
556 PRCP
557 LYZ
558 CSF1R
559 MIF
560 MPEG1
561 MST1R
562 MGAM
563 MPI
564 MAPK3
565 MAPK1
566 MAPK14
567 MKNK2
568 MAPKAPK2
569 MKNK1

570	MELK
571	MMP10
572	MMP12
573	MMP13
574	MMP14
575	MMP15
576	MMP16
577	MMP26
578	MMP3
579	MMP7
580	MMP8
581	MMP9
582	MCHR1
583	MC4R
584	MTNR1A
585	MTNR1B
586	GRM1
587	GRM2
588	GRM3
589	GRM5
590	GRM6
591	GRM8
592	KISS1R
593	METAP1
594	METAP2
595	MARS
596	MAP2
597	MAPT
598	NR3C2
599	MAP3K11
600	MAP3K14
601	MAP3K5
602	MAP3K8
603	MAP3K9
604	MAP4K4
605	CD14
606	MGLL
607	PTPN1
608	OPRM1
609	MALT1
610	SLC47A1
611	ABCC1
612	CHRM1
613	CHRM2

614	CHRM3
615	CHRM4
616	CHRM5
617	GYS1
618	MUSK
619	MYC
620	MPO
621	MYLK
622	DDAH1
623	NLRP3
624	NAAA
625	NQO1
626	SIRT1
627	SIRT2
628	MT-ND6
629	NDUFA4
630	NOX4
631	NOX5
632	POR
633	NAE1
634	MME
635	NTRK1
636	TACR1
637	TACR2
638	NMUR2
639	CHRNA4
640	CHRNA7
641	CHRNA2
642	CHRNA3
643	CHRNA4
644	CHRNA3
645	NPY5R
646	NPBWR1
647	NTRK2
648	NCF1
649	NFKBIA
650	NAMPT
651	CHRNA5
652	NPC1L1
653	NOS3
654	NOS2
655	NOS1
656	OPRL1
657	SLC6A2

658	NTRK3
659	NUAK1
660	NFE2L2
661	NFKB1
662	RELA
663	NFATC1
664	NCOA1
665	NCOA2
666	RORA
667	RORC
668	NR1I2
669	NR1I3
670	NR4A1
671	NPM1
672	HCRTR1
673	HCRTR2
674	ODC1
675	SPP1
676	OLR1
677	OXTR
678	P2RX3
679	P2RX7
680	LGALS7
681	PIN1
682	BRPF1
683	PRF1
684	PER2
685	CASK
686	PRXC1A
687	PPARD
688	PPARG
689	PPARA
690	ABCB1
691	FARS2
692	PNMT
693	PTEN
694	PIK3CG
695	PIK3C2B
696	PIK3C2G
697	PIP5K1C
698	PIP4K2C
699	PDE10A
700	PDE11A
701	PDE2A

702 PDE3B
703 PDE4A
704 PDE4B
705 PDE4C
706 PDE4D
707 PDE5A
708 PDE7A
709 PDE8B
710 PDE9A
711 PGK1
712 PLA2G1B
713 PLA2G2A
714 PLA2G2C
715 PLA2G5
716 PLAA
717 PLCG1
718 PHKG2
719 PIK3R1
720 PIK3CA
721 PIK3CB
722 PIK3CD
723 PI4KB
724 PGF
725 RBP4
726 PLG
727 SERPINE1
728 PTAFR
729 PDGFRA
730 PDGFRB
731 PLEC
732 PARP1
733 PARP2
734 PARP4
735 PABPC1
736 PAOX
737 KCNK2
738 KCNK3
739 KCNK9
740 ATP4B
741 HERC1
742 GPR139
743 PCOLCE
744 EGF
745 PGR

746	PCNA
747	PREP
748	PTGES
749	PTGER3
750	PTGDR
751	PTGER1
752	PTGER2
753	PTGER4
754	PTGFR
755	PTGIR
756	ACPP
757	PSMB2
758	PSMB5
759	PRMT3
760	RUNX1T1
761	FNTA
762	PRKCZ
763	PRKCA
764	PRKCB
765	PRKCD
766	PRKCE
767	PRKCH
768	PRKCG
769	PRKD1
770	PRKCQ
771	PKN1
772	MDM4
773	PPM1A
774	PPM1B
775	PBRM1
776	PTK2B
777	F2R
778	TGM2
779	PTPN6
780	PTPN11
781	PTP4A3
782	FOS
783	JUN
784	WNT3
785	PIM1
786	MERTK
787	ROS1
788	VAV1
789	PPOX

790	SELP
791	PNP
792	NPEPPS
793	QRFPR
794	PDK1
795	NQO2
796	AKT1
797	RAF1
798	RASSF1
799	RASA1
800	RASGRP3
801	RASGRP1
802	ERBB2
803	ERBB3
804	PTPRF
805	PTPRS
806	RGS4
807	REN
808	RB1
809	RXRA
810	RXRB
811	ROCK2
812	ROCK1
813	RHO
814	RPS6KB1
815	RPS6KA1
816	RPS6KA2
817	RPS6KA3
818	RPS6KA4
819	RPS6KA5
820	RUNX2
821	ATP2A1
822	SCARB1
823	PPP2R5A
824	PPP2CA
825	PPP1CA
826	PPP1CC
827	AURKA
828	AURKB
829	BRAF
830	CHEK1
831	CHEK2
832	ILK
833	MTOR

834	NEK2
835	NEK6
836	PAK1
837	PAK4
838	PIM2
839	PIM3
840	PLK1
841	PLK2
842	PLK3
843	ACVRL1
844	RIPK2
845	SGK1
846	TAOK1
847	TAOK2
848	TAOK3
849	TBK1
850	WEE1
851	ERN1
852	PPP3CB
853	ATM
854	HTR1D
855	HTR1F
856	HTR2B
857	HTR3B
858	HTR3A
859	HTR4
860	HTR5A
861	HTR6
862	HTR7
863	SLC6A4
864	PON1
865	NEU3
866	SIGMAR1
867	STAT1
868	STAT3
869	MTAP
870	SMO
871	SCN5A
872	SCN9A
873	SLC5A1
874	SLC5A2
875	SLC9A1
876	SLC5A11
877	SLC28A2

878	SLC13A5
879	SLC2A4
880	SLC22A12
881	SLC22A2
882	SLC22A6
883	SSTR1
884	SSTR2
885	SSTR3
886	SSTR4
887	SSTR5
888	SHH
889	SORD
890	S1PR1
891	S1PR3
892	S1PR2
893	SQLE
894	FDFT1
895	KIT
896	SRD5A1
897	SRD5A2
898	CYP27A1
899	SREBF2
900	STS
901	PCSK7
902	ABCC9
903	SAE1
904	SOD1
905	SLC18A2
906	TNKS
907	TNKS2
908	TAS2R31
909	PTPN2
910	TERT
911	DNTT
912	SHBG
913	TGFBR1
914	F2
915	THBD
916	TBXA2R
917	TBXAS1
918	TK2
919	TYMP
920	TYMS
921	THRA

922	THRB
923	PLAT
924	TNF
925	TLR9
926	SMARCA4
927	E2F1
928	E2F2
929	TGFB1
930	HRAS
931	TRPA1
932	TRPM8
933	TRPV3
934	TRPV4
935	VCP
936	TSPO
937	TTR
938	TNNC1
939	PRSS1
940	PRSS3
941	TUBB1
942	TUBB3
943	TTL
944	TDRD7
945	DIO1
946	AGTR1
947	TYR
948	ABL1
949	BLK
950	BMX
951	PTK6
952	BTK
953	CSK
954	FGR
955	FYN
956	HCK
957	ITK
958	JAK1
959	JAK2
960	LCK
961	LYN
962	FLT3
963	TYRO3
964	AXL
965	SRC

966	SYK
967	TEK
968	TXK
969	TYK2
970	YES1
971	TDP1
972	TDP2
973	UGT2B7
974	COQ8B
975	UPP1
976	PLAUR
977	PLAU
978	UTS2R
979	TRPV1
980	VCAM1
981	VEGFA
982	FLT1
983	KDR
984	FLT4
985	AVPR1A
986	AVPR2
987	VDR
988	CACNA1C
989	CACNA1B
990	KCNA3
991	KCNA5
992	KCNE1
993	XDH
994	CCNB2
995	UBA2
996	GABRB2
997	FNTB
998	PSENEN
999	NCSTN
1000	APH1A
1001	PSEN1
1002	APH1B
1003	ITGB2
1004	CCNA1
1005	CCND2
1006	CCNH
1007	TNNT2
1008	TNNI3
1009	CHRNA2

1010	P06493
1011	P14635
1012	O95067
1013	CDK3
1014	SUZ12
1015	RBBP7
1016	KCNQ1
1017	ATP4A
1018	CHRNA1
1019	CHRNA6
1020	GRIN2B
1021	GRIN2B
1022	GRIN2B
