

Table SI. Predicted targets of action of active components of purslane.

Targets of action	Active components	Probability
CYP1B1	Hesperetin	0.601
CA7	Hesperetin	0.364
CA12	Hesperetin	0.364
CA4	Hesperetin	0.364
CYP19A1	Hesperetin	0.254
ESR1	Hesperetin	0.167
ESR2	Hesperetin	0.167
HSD17B1	Hesperetin	0.159
MAOB	Hesperetin	0.143
MMP13	Hesperetin	0.143
ADORA1	Hesperetin	0.135
ABCG2	Hesperetin	0.127
TAS2R31	Hesperetin	0.127
ADORA3	Hesperetin	0.127
MMP12	Hesperetin	0.127
PTGS1	Hesperetin	0.119
ABCC1	Hesperetin	0.112
SHBG	Hesperetin	0.112
CBR1	Hesperetin	0.112
AKR1C3	Hesperetin	0.112
PLA2G1B	Hesperetin	0.112
KLK1	Hesperetin	0.112
KLK2	Hesperetin	0.112
PPARG	Hesperetin	0.112
CA3	Hesperetin	0.112
ABCB1	Hesperetin	0.112
SRC	Hesperetin	0.112
GRM5	Hesperetin	0.112
TERT	Hesperetin	0.112
CA2	Hesperetin	0.112
CA1	Hesperetin	0.112
KDR	Hesperetin	0.112
POLB	Hesperetin	0.112
PLA2G5	Hesperetin	0.112
PLA2G10	Hesperetin	0.112
GSK3B	Hesperetin	0.112
CHRNA7	Hesperetin	0.112
CES1	Hesperetin	0.112
MET	Hesperetin	0.112
ACHE	Hesperetin	0.112
TOP1	Hesperetin	0.112
CA6	Hesperetin	0.112
CA5A	Hesperetin	0.112
IGF1R	Hesperetin	0.112
PIM1	Hesperetin	0.112
PIM2	Hesperetin	0.112

PIM3	Hesperetin	0.112
BACE1	Hesperetin	0.112
MMP2	Hesperetin	0.112
RXRA	Hesperetin	0.112
SERPINE1	Hesperetin	0.112
ADCY5	Hesperetin	0.112
DYRK1A	Hesperetin	0.112
APP	Hesperetin	0.112
GRM2	Hesperetin	0.112
MMP9	Hesperetin	0.112
GUSB	Hesperetin	0.112
CA9	Hesperetin	0.112
MYLK	Hesperetin	0.112
DNMT1	Hesperetin	0.112
KCNH2	Hesperetin	0.112
PGD	Hesperetin	0.112
ST3GAL3	Hesperetin	0.112
FUT7	Hesperetin	0.112
FUT4	Hesperetin	0.112
STAT1	Hesperetin	0.112
SQLE	Hesperetin	0.112
AKR1B1	Hesperetin	0.112
FFAR1	Hesperetin	0.112
CES2	Hesperetin	0.112
MMP14	Hesperetin	0.112
PDGFRB	Hesperetin	0.112
PARP1	Hesperetin	0.112
TNKS2	Hesperetin	0.112
TNKS	Hesperetin	0.112
ODC1	Hesperetin	0.112
TDP1	Hesperetin	0.112
ERN1	Hesperetin	0.112
BCL2	Hesperetin	0.112
MMP3	Hesperetin	0.112
CLK1	Hesperetin	0.112
DYRK1B	Hesperetin	0.112
KCNMA1	Hesperetin	0.112
NAT1	Hesperetin	0.112
CA13	Hesperetin	0.112
CHEK1	Hesperetin	0.112
FASN	Hesperetin	0.112
EDNRA	Hesperetin	0.112
SGK1	Hesperetin	0.112
HSD17B2	Hesperetin	0.112
MAOA	Hesperetin	0.112
RPS6KA5	Hesperetin	0.112
FABP4	Arachidonic acid	1.000
PPARA	Arachidonic acid	1.000
PPARD	Arachidonic acid	1.000

FABP3	Arachidonic acid	0.254
ALOX5	Arachidonic acid	0.238
CNR1	Arachidonic acid	0.135
FAAH	Arachidonic acid	0.119
FABP5	Arachidonic acid	0.119
FABP1	Arachidonic acid	0.119
SCD	Arachidonic acid	0.119
PTGER2	Arachidonic acid	0.119
TRPV1	Arachidonic acid	0.112
PTGER1	Arachidonic acid	0.112
PTGES	Arachidonic acid	0.112
ALOX12	Arachidonic acid	0.112
PTPN1	Arachidonic acid	0.112
PTGES2	Arachidonic acid	0.112
RXRB	Arachidonic acid	0.112
RXRG	Arachidonic acid	0.112
RARG	Arachidonic acid	0.112
RARB	Arachidonic acid	0.112
RARA	Arachidonic acid	0.112
PTGDR2	Arachidonic acid	0.112
PTPN2	Arachidonic acid	0.112
ALOX15	Arachidonic acid	0.112
FABP2	Arachidonic acid	0.112
TBXAS1	Arachidonic acid	0.112
CYP26B1	Arachidonic acid	0.112
PLA2G4A	Arachidonic acid	0.112
HSD11B1	Arachidonic acid	0.112
TRPA1	Arachidonic acid	0.112
CYP26A1	Arachidonic acid	0.112
PTGDR	Arachidonic acid	0.112
HMGCR	Arachidonic acid	0.112
MDM2	Arachidonic acid	0.112
HSD11B2	Arachidonic acid	0.112
TRPM8	Arachidonic acid	0.112
PTGER4	Arachidonic acid	0.112
DAGLA	Arachidonic acid	0.112
LTB4R	Arachidonic acid	0.112
CDC25A	Arachidonic acid	0.112
PSEN2	Arachidonic acid	0.112
SLC22A12	Arachidonic acid	0.112
PTGIR	Arachidonic acid	0.112
PRKCH	Arachidonic acid	0.112
NR1H3	Arachidonic acid	0.112
RORC	Arachidonic acid	0.112
CNR2	Arachidonic acid	0.112
AGTR1	Arachidonic acid	0.112
SLC16A1	Arachidonic acid	0.112
MMP8	Arachidonic acid	0.112
PTPN11	Arachidonic acid	0.112

HNF4A	Arachidonic acid	0.112
RBP4	Arachidonic acid	0.112
ENPP2	Arachidonic acid	0.112
TP53	Arachidonic acid	0.112
NOS2	Arachidonic acid	0.112
NR3C1	Arachidonic acid	0.112
CMA1	Arachidonic acid	0.112
CTSG	Arachidonic acid	0.112
HTR2B	Arachidonic acid	0.112
RORB	Arachidonic acid	0.112
MAPK1	Arachidonic acid	0.112
OXER1	Arachidonic acid	0.112
ITGAL	Arachidonic acid	0.112
CCKAR	Arachidonic acid	0.112
PGR	Arachidonic acid	0.112
ADRA2B	Arachidonic acid	0.112
MAPK14	Arachidonic acid	0.112
FFAR4	Arachidonic acid	0.112
CDC25B	Arachidonic acid	0.112
PTGS2	Arachidonic acid	0.112
PTPN6	Arachidonic acid	0.112
ALOX5AP	Arachidonic acid	0.112
PDE4D	Arachidonic acid	0.112
PDE4A	Arachidonic acid	0.112
PDE4B	Arachidonic acid	0.112
PDE4C	Arachidonic acid	0.112
ACE	Arachidonic acid	0.112
KEAP1	Arachidonic acid	0.112
PRKAG1	Arachidonic acid	0.112
FNTB	Arachidonic acid	0.112
NR3C2	Arachidonic acid	0.112
AKR1B10	Arachidonic acid	0.112
NPC1L1	□-sitosterol	0.876
CYP17A1	□-sitosterol	0.389
SREBF2	□-sitosterol	0.323
AR	□-sitosterol	0.256
CYP51A1	□-sitosterol	0.256
RORA	□-sitosterol	0.181
CYP2C19	□-sitosterol	0.131
SERPINA6	□-sitosterol	0.114
G6PD	□-sitosterol	0.114
SLC6A2	□-sitosterol	0.114
SLC6A4	□-sitosterol	0.106
BCHE	□-sitosterol	0.106
CHRM2	□-sitosterol	0.106
NR1I3	□-sitosterol	0.106
NR1H2	□-sitosterol	0.106
VDR	□-sitosterol	0.106
DHCR7	□-sitosterol	0.106

GLRA1	□-sitosterol	0.106
FDFT1	□-sitosterol	0.106
UGT2B7	□-sitosterol	0.106
FOLH1	Isobetanidin	0.116
NAALAD2	Isobetanidin	0.116
NOX4	Kaempferol	1.000
XDH	Kaempferol	1.000
TYR	Kaempferol	1.000
FLT3	Kaempferol	1.000
AHR	Kaempferol	1.000
ESRRA	Kaempferol	1.000
GLO1	Kaempferol	0.658
SYK	Kaempferol	0.658
PTPRS	Kaempferol	0.608
ADORA2A	Kaempferol	0.567
CDK5	Kaempferol	0.518
CDK1	Kaempferol	0.518
ARG1	Kaempferol	0.518
GPR35	Kaempferol	0.502
DAPK1	Kaempferol	0.502
MPG	Kaempferol	0.502
TTR	Kaempferol	0.485
CDK6	Kaempferol	0.477
CDK2	Kaempferol	0.477
CSNK2A1	Kaempferol	0.427
EGFR	Kaempferol	0.403
AVPR2	Kaempferol	0.403
F2	Kaempferol	0.403
AURKB	Kaempferol	0.403
DRD4	Kaempferol	0.403
MPO	Kaempferol	0.403
PIK3R1	Kaempferol	0.403
PYGL	Kaempferol	0.403
PTK2	Kaempferol	0.403
PLK1	Kaempferol	0.403
CDK1	Kaempferol	0.403
PKN1	Kaempferol	0.403
CA14	Kaempferol	0.403
NEK2	Kaempferol	0.403
CXCR1	Kaempferol	0.403
CAMK2B	Kaempferol	0.403
ALK	Kaempferol	0.403
AKT1	Kaempferol	0.403
NEK6	Kaempferol	0.403
AXL	Kaempferol	0.403
NUAK1	Kaempferol	0.403
AKR1C2	Kaempferol	0.403
AKR1C1	Kaempferol	0.403
AKR1C4	Kaempferol	0.403

AKR1A1	Kaempferol	0.403
CD38	Kaempferol	0.295
CFTR	Kaempferol	0.271
PFKFB3	Kaempferol	0.263
AMY1A	Kaempferol	0.238
GRK6	Kaempferol	0.238
MAPT	Kaempferol	0.172
PLG	Luteolin	0.147
KDM4E	Luteolin	0.147
TOP2A	Quercetin	0.680
INSR	Quercetin	0.680
PIK3CG	Quercetin	0.680
APEX1	Quercetin	0.680

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