

Supplementary Table 1 The list of 28 transient receptor potential family genes

Gene name	Symbol ID
TRPM1	TRPM1
TRPM2	TRPM2
TRPM3	TRPM3
TRPM4	TRPM4
TRPM5	TRPM5
TRPM6	TRPM6
TRPM7	TRPM7
TRPM8	TRPM8
TRPC1	TRPC1
TRPC2	TRPC2
TRPC3	TRPC3
TRPC4	TRPC4
TRPC6	TRPC6
TRPC7	TRPC7
TRPV1	TRPV1
TRPV2	TRPV2
TRPV3	TRPV3
TRPV4	TRPV4
TRPV5	TRPV5
TRPV6	TRPV6
TRPA1	TRPA1
TRPP2	PKD2
TRPP3	PKD2L1
TRPP5	PKD2L2
TRPML1	MCOLN1
TRPML2	MCOLN2

TRPML3 MCOLN3

Supplementary Table 2 Protein-protein interaction among transient receptor potential family genes and the 10 hub genes were identified

Gene name	Degree
TRPC1	27
MCOLN1	26
PKD1	25
MCOLN3	24
MCOLN2	24
TRPC3	24
TRPA1	24
TRPC6	23
TRPC5	23
PKD2L1	22
TRPC4	22
TRPM7	21
TRPV2	21
TRPV5	20
TRPV4	20
TRPM8	19
PKD2L2	19
TRPV6	19
TRPV1	19
PKD2	19
TRPM6	18
TRPM2	18
TRPV3	18

TRPM4	18
TRPM1	17
TRPM3	17
TRPM5	16
TRPC7	7
