

**Expression and Diagnostic Value Evaluation of Urinary
Exosomal miR-142-3p in Diabetic Nephropathy
Supplement Data**

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Supplementary Table S1. KEGG enrichment pathway analysis of urine exosome miR-142-3p.

KEGG pathway	Count	Genes
Salmonella infection	16	RAC1, IL6, TUBAL3, NCKAP1, DCTN4, ROCK2, TAB2, WASL, PIK3CG, KIF5B, IRAK1, FYCO1, KIF5A, ACBD3, BAK1, CTNNB1
Dopaminergic synapse	10	BMAL1, CLOCK, PPP2R2C, GNAQ, GNAS, KIF5B, GNB2, CREB3L2, CALM1, KIF5A
Endocrine and other factor-regulated calcium reabsorption	6	ADCY9, GNAQ, CLTA, GNAS, ATP2B1, ESSR1
Pertussis	7	IL6, C2, C4BPB, IL1A, IRAK1, CALM1, IRF1
Fatty acid metabolism	6	SCD, HSD17B4, ACSL4, ACSL1, ACACA, HSD17B12
Pathways of neurodegeneration - multiple diseases	21	RAC1, IL-6, PSMB5, NEFH, PSMD12, TUBAL3, DCTN4, GNAQ, ATP2A2, C9orf72, IL1A, APC, PSMD11, KIF5B, CALM1, KIF5A, FZD7, BAK1, ATXN3, VAPB, CTNNB1
Adrenergic signaling in cardiomyocytes	10	ADCY9, PPP2R2C, AGTR2, GNAQ, ATP2A2, GNAS, PIK3CG, CREB3L2, CALM1, ATP2B1
Cushing syndrome	10	ADCY9, CRH, GNAQ, KMT2A, GNAS, APC, CREB3L, FZD7, CDKN1B, CTNNB1
Transcriptional misregulation in cancer	11	IL6, PROM1, CCNT2, HMGA2, KMT2A, AFF1, HOXA10, HOXA9, SS18, CDKN1B, BAK1
Human cytomegalovirus infection	12	ADCY9, RAC1, IL6, GNAQ, ITGAV, ROCK2, GNAS, GNB2, CREB3L2, CALM1, BAK1, CTNNB1
Epstein-Barr virus infection	11	RAC1, IL6, PSMD12, SKP2, TAB2, ENTPD1, PSMD11, IRAK1, CDKN1B, BAK1, IFNAR2
Adherens junction	6	RAC1, YES1, TGFB1, WASL, CTNNB1, PTPRJ
Melanogenesis	7	ADCY9, GNAQ, GNAS, CREB3L2, CALM1, FZD7, CTNNB1
Fatty acid biosynthesis	3	ACSL4, ACSL1, ACACA
Hippo signaling pathway	9	PPP2R2C, BMP8A, TGFB1, APC, FZD7, YWHAH, YWHAH, CTNNB1, BMP2

KEGG pathway	Count	Genes
Thyroid cancer	4	TFG,CCDC6,BAK1, CTNNB1
Glucagon signaling pathway	7	GNAQ, GNAS, SIK2, SIK1, CREB3L2, CALM1, ACACA
cGMP-PKG signaling pathway	9	ADCY9, GNAQ, ATP2A2, ROCK2, PIK3CG, MEF2D, CREB3L2, CALM1, ATP2B1
Pathogenic Escherichia coli infection	10	RAC1, IL6, TUBAL3, NCKAP1, ROCK2, TAB2, WASL, IRAK1, NCK2, BAK1
Measles	8	IL6, TAB2, IL1A, HSPA1B, IRAK1, CDKN1B, BAK1, IFNAR2
Viral life cycle - HIV-1	5	CCNT2, KAT2B, HGS, AFF4, ELL2
Basal cell carcinoma	5	AOC, FZD7, BAK1, CTNNB1, BMP2
Spinocerebellar ataxia	8	PSMB5, KCND3, PSMD12, GNAQ, ATP2A2, PUM1, PSMD11, ATXN3
Viral carcinogenesis	10	RAC1, SKP2, EGR2, KAT2B, CREB3L2, YWHAH, IL6ST, CDKN1B, BAK1, YWHAH
Vasopressin-regulated water reabsorption	4	Y9, DCTN4, GNAS, CREB3L2
Small cell lung cancer	6	SKP2, ITGAV, XIAP, CDKN1B, BAK1, LAMC1
Prion disease	12	RAC1, IL6, PSMB5, PSMD12, TUBAL3, IL1A/HSPA1B, PSMD11, KIF5B, CREB3L2, KIF5A, LAMC1
AMPK signaling pathway	7	PPP2R2C, RAB2A, SCD, EE2K, CREB3L2, AKT1S1, ACACA
Proteasome	4	PSMB5, PSMD12, PSMD11, PSME4
Cell cycle	7	CDC6, SKP2, CDC14B, YWHAH, CDKN1B, YWHAH, CDC25C
Biosynthesis of unsaturated fatty acids	3	SCD, HSD17B4, HSD17B12
Human immunodeficiency virus 1 infection	10	RAC1, GNAQ, TAB2, IRAK1, GNB2, CUL5, CALM1, BAK1, CDC25C, AP1S3
Aldosterone synthesis and secretion	6	ADCY9, GNAQ, GNAS, CREB3L2, CALM1, ATP2B1
Alzheimer disease	15	IL6, PSMB5, PSMD12, TUBAL3, GNAQ, ATP2A2, IL1A, APC, PSMD11, KIF5B, CALM1, KIF5A, FZD7, SLC39A9, CTNNB1

KEGG pathway	Count	Genes
Pancreatic secretion	6	ADCY9, RAC1, GNAQ, ATP2A2, GNAS, ATP2B1
Chagas disease	6	IL6, PPP2R2C, TGFBR1, GNAQ, GNAS, IRAK1
C-type lectin receptor signaling pathway	6	IL6, CLEC4D, EGR2, CALM1, MALT1, IRF1
Kaposi sarcoma-associated herpesvirus infection	9	RAC1, IL6, PIK3CG, GNB2, CALM1, IL6ST, BAK1, IFNAR2, CTNNB1
Yersinia infection	7	RAC1, IL6, GNAQ, ROCK2, TAB2, WASL, IRAK1
Estrogen signaling pathway	7	ADCY9, GNAQ, HSPA1B, GNAS, CREB3L2, CALM1, ESR1
Apelin signaling pathway	7	ADCY9, TGFBR1, GNAQ, PIK3CG, MEF2D, GNB2, CALM1
Wnt signaling pathway	8	RAC1, GPC4, ROCK2, APC, LGR5, FZD7, CTNNB1, CBYA
Toxoplasmosis	6	TAB2, HSPA1B, PIK3CG, IRAK1, XIAP, LAMC1
Alcoholic liver disease	7	IL6, C2, TAB2, SCD, IRAK1, ACACA, CTNNB1
Cholinergic synapse	6	ADCY9, GNAQ, PIK3CG, GNB, GREB3L2, CHENA6
Colorectal cancer	5	RAC1, TGFBR1, APC, BAK1, CTNNB1
Pentose and glucuronate interconversions	3	UGT2B17, RPE, AKR1B10
Endocytosis	10	ARF4, TGFBR1, HSPA1B, CLTA, STAM, HGS, WASL, KIF5B, KIF5A, RBSN