

**Circular RNA *hsa\_circ\_0008726* Targets the *hsa-miR-206-3p*/KLF4 Axis to Modulate 4,4'-Methylene Diphenyl Diisocyanate-Induced Chemokine Transcription in Macrophages**  
Data Dictionary

Field Name	Field Contents
anti-IgG isotype	anti immunoglobulin G isotype control; antibody is suitable for use as a non-targeting isotype control in various in vitro and in vivo studies
anti-pan AGO	anti Argonaute proteins; antibody against Argonaute protein 1-4; used to immunoprecipate RNA-induced silencing complex which consist of argonaute proteins and associated mRNA and miRs
<i>CCL17</i>	Human C-C Motif Chemokine Ligand 17 mRNA; a member of chemokines involved in immunoregulatory and inflammatory processes
CCL17	Human C-C Motif Chemokine Ligand 17 protein; a member of chemokines involved in immunoregulatory and inflammatory processes
<i>CCL22</i>	Human C-C Motif Chemokine Ligand 22 mRNA; a member of chemokines involved in immunoregulatory and inflammatory processes
CCL22	Human C-C Motif Chemokine Ligand 22 protein; a member of chemokines involved in immunoregulatory and inflammatory processes
<i>CCL24</i>	Human C-C Motif Chemokine Ligand 24 mRNA; a member of chemokines involved in immunoregulatory and inflammatory processes
CCL24	Human C-C Motif Chemokine Ligand 24 protein; a member of chemokines involved in immunoregulatory and inflammatory processes
<i>CD206</i>	Human Mannose Receptor C-Type 1 mRNA; a cell surface marker for M2 macrophages which recognizes and binds high-mannose structures on the surface of potentially pathogenic viruses, bacteria, and fungi
Concentration (pg/ml)	Chemokine protein concentration in picogram per microliter.
<i>DNAJB6</i>	DnaJ Heat Shock Protein Family (Hsp40) Member B6; a member of the DNAJ protein family; involved in a wide range of cellular events, such as protein folding and oligomeric protein complex assembly
Fold change	Fold change in gene expression compared to control. Determined by real-time PCR.
GSH	Reduced glutathione: antioxidant in biological system to reduce oxidative stress from reactive oxygen species
<i>hsa_circ_0000199</i>	Circular RNA 199; Candidate <i>hsa-miR-206-3p</i> binding circRNA; a circular structured long noncoding RNA which may function as sponge for endogenous miR, RNA-binding protein (RBP), protein translational template and transcriptional regulator
<i>hsa_circ_0001264</i>	Circular RNA 1264; Candidate <i>hsa-miR-206-3p</i> binding circRNA; a circular structured long noncoding RNA which may function as sponge for endogenous miR, RNA-binding protein (RBP), protein translational template and transcriptional regulator
<i>hsa_circ_0001982</i>	Circular RNA 1982; Candidate <i>hsa-miR-206-3p</i> binding circRNA; a circular structured long noncoding RNA which may function as sponge for endogenous miR, RNA-binding protein (RBP), protein translational template and transcriptional regulator
<i>hsa_circ_0004662</i>	Circular RNA 4662; Candidate <i>hsa-miR-206-3p</i> binding circRNA; a circular structured long noncoding RNA which may function as sponge for endogenous miR, RNA-binding protein (RBP), protein translational template and transcriptional regulator

<i>hsa_circ_0007428</i>	Circular RNA 7428; Candidate <i>hsa-miR-206-3p</i> binding circRNA; a circular structured long noncoding RNA which may function as sponge for endogenous miR, RNA-binding protein (RBP), protein translational template and transcriptional regulator
<i>hsa_circ_0008726</i>	Circular RNA 8726; Candidate <i>hsa-miR-206-3p</i> binding circRNA; a circular structured long noncoding RNA which may function as sponge for endogenous miR, RNA-binding protein (RBP), protein translational template and transcriptional regulator
<i>hsa_circ_0056618</i>	Circular RNA 56618; Candidate <i>hsa-miR-206-3p</i> binding circRNA; a circular structured long noncoding RNA which may function as sponge for endogenous miR, RNA-binding protein (RBP), protein translational template and transcriptional regulator
<i>hsa_circ_0057558</i>	Circular RNA 57558; Candidate <i>hsa-miR-206-3p</i> binding circRNA; a circular structured long noncoding RNA which may function as sponge for endogenous miR, RNA-binding protein (RBP), protein translational template and transcriptional regulator
<i>hsa_circ_0058141</i>	Circular RNA 58141; Candidate <i>hsa-miR-206-3p</i> binding circRNA; a circular structured long noncoding RNA which may function as sponge for endogenous miR, RNA-binding protein (RBP), protein translational template and transcriptional regulator
<i>hsa_circ_0072088</i>	Circular RNA 72088; Candidate <i>hsa-miR-206-3p</i> binding circRNA; a circular structured long noncoding RNA which may function as sponge for endogenous miR, RNA-binding protein (RBP), protein translational template and transcriptional regulator
<i>hsa-miR-206-3p</i>	Human microRNA-206-3p; a member of human microRNAs which participate in posttranscriptional regulation of many human genes in different cells
IP antibody	immunoprecipitation antibody
MDI	4,4'-methylene diphenyl diisocyanate; reactive chemical that is used for polyurethane production; cause agent for occupational asthma
miR	MicroRNA; a class of non-coding RNAs that participated in posttranscriptional regulation of many different genes in different cell types
miR-inhibitor	Inhibitors of microRNA; commercially available inhibitor that was designed to bind endogenous microRNAs to inhibit its function and expression
miR-inhibitor-206-3p	microRNA-206-3p inhibitor; commercially available microRNA inhibitor that was designed to target endogenous <i>hsa-miR-206-3p</i>
miR-inhibitor-381-3p	microRNA-381-3p inhibitor; commercially available microRNA inhibitor that was designed to target endogenous <i>hsa-miR-381-3p</i>
miR-inhibitor-Ctl	microRNA inhibitor control; commercial available microRNA inhibitor control that was designed not targeting any endogenous microRNAs and it served as transfection control for other microRNA inhibitors
miR-mimic-206-3p	microRNA-206-3p mimic; commercial available microRNA mimic that was designed to serve as exogenous <i>hsa-miR-206-3p</i> to study <i>hsa-miR-206-3p</i> function in the cells
miR-mimic-381-3p	microRNA-381-3p mimic; commercial available microRNA mimic that was designed to serve as exogenous <i>hsa-miR-381-3p</i> to study <i>hsa-miR-381-3p</i> function in the cells
miR-mimic-Ctl	microRNA mimic control; commercial available microRNA mimic control, an exogenous stable exogenous microRNA which cannot target any endogenous microRNA; it served as transfection control for other microRNA mimics
miR-mimics	mimics of microRNA; commercially available exogenous microRNAs that was designed as stable exogenous microRNA, ready for transfection and used to study microRNA function in the cells
Mock	Treatments containing only complete media (RPMI-1640 supplement with 10% Fetal Bovine Serum, and 1x penicillin-streptomycin-glutamine)

pcDNA3.1 <sup>(+)</sup> _Circ_Mini	Empty plasmid DNA vector containing Human cytomegalovirus immediate-early (CMV) promoter as control.
pcDNA3.1 <sup>(+)</sup> _Circ_Mini <i>hsa_circ_0008726</i>	Plasmid DNA containing CMV promoter for high-level expression of <i>hsa_circ_0008726</i> in mammalian cells
Plasmid transfected	Indicated the cells was transfected with the plasmid DNA
siCtl	ON-TARGETplus Non-targeting Control Pool from Dharmacon
si- <i>hsa_circ_0008726</i> #1	Dharmacon custom siRNA number 1 custom designed to target the human <i>hsa_circ_0008726</i>
si- <i>hsa_circ_0008726</i> #2	Dharmacon custom siRNA number 2 custom designed to target the human <i>hsa_circ_0008726</i>
<i>TGM2</i>	Human Transglutaminase 2 mRNA; a M2 macrophage marker; belongs to transglutaminases-enzymes that catalyze the crosslinking of proteins by epsilon-gamma glutamyl lysine isopeptide bonds