

Supplementary Table 3. Ocular expression profile of TRPM3 and miR-204 genes in humans (*TRPM3* , *MIR204*) and mice (*Trpm3* , *Mir204*).

Eye Tissue or Cell Type	EST/cDNA (neibank.nei.nih.gov)	Northern Blot	RT-PCR	qPCR	ISH	Microarray (biogps.org)	RNA-Seq	Reporter Transgene (β-gal)	Western Blot	IHC	Reference
Whole eye (m)						<i>Trpm3</i>					93
Cornea (h/m), corneal epithelial cells		<i>Mir204</i>			<i>Mir204</i>	<i>Trpm3</i>	<i>MIR204</i>				134, 156, 158
Iris (h, m)	<i>TRPM3</i>					<i>Trpm3</i>					129, 130
Ciliary Body (h/m) non-pigmented epithelium					<i>Trpm3</i> , <i>Mir204</i> <i>MIR204</i>	<i>Trpm3</i>	<i>MIR204</i>	<i>Trpm3</i>			93, 134, 139, 146, 147, 155, 156
Trabecular meshwork (h), HTM cells						<i>MIR204</i>	<i>MIR204</i>				134, 141-143
Lens (h/m), lens epithelial cell-lines	<i>TRPM3</i>	<i>Mir204</i>	<i>TRPM3</i>		<i>Trpm3</i> <i>Mir204</i> <i>MIR204</i>	<i>Trpm3</i>	<i>Mir204</i> <i>Trpm3</i> <i>TRPM3</i>				81, 129, 132, 137, 138, 139, 140, 146, 148, 149, 150, 156, 165
Retina (h/m)	<i>TRPM3</i>	<i>Trpm3</i> <i>Mir204</i>	<i>Trpm3</i> <i>Mir204</i>		<i>Mir204</i> <i>MIR204</i>	<i>Trpm3</i>	<i>MIR204</i> <i>Mir204</i>				93, 131, 133, 139, 146, 147, 151, 155-157, 159-163
Eye/Optic Cup (m)		<i>Trpm3</i>				<i>Trpm3</i>					147
GCL (m), Muller glia cells			<i>Trpm3</i>		<i>Trpm3</i> <i>Mir204</i> <i>MIR204</i>			<i>Trpm3</i>		<i>Trpm3</i>	83, 93, 146, 153, 163
IPL (m) - outer OFF sublamina a										<i>Trpm3</i>	153
INL (h/m)					<i>Trpm3</i> <i>Mir204</i> <i>MIR204</i>					<i>Trpm3</i>	83, 93, 146, 147, 151, 153
OPL (m)										<i>Trpm3</i>	153
ONL (h) (rod/cone)					<i>MIR204</i>						83
RPE (h/m), ARPE-19 cells	<i>TRPM3</i>	<i>MIR204</i>		<i>TRPM3</i> <i>MIR204</i>	<i>Trpm3</i> <i>Mir204</i> <i>MIR204</i>	<i>Trpm3</i>	<i>MIR204</i> <i>TRPM3</i> <i>Mir204</i>		<i>TRPM3</i>	<i>TRPM3</i>	83, 131, 133, 135-139, 144-146, 155
Optic nerve head, optic nerve glia (m)			<i>Trpm3</i>	<i>Trpm3</i>						<i>Trpm3</i>	152, 154