

Supplemental Table 1: Primer Sets for PCR and qRT-PCR

Primer Name	Primer F	Primer R	type
Genotyping Primers			
<i>TVRM65</i>	ACTACAAAGATCAGAGTGCCTGG	GCTATAGCTCTGGCCTGACT	PCR
<i>C57Bl6/J</i> (for <i>TVRM65</i>)	ACTACAAAGATCAGAGTGCCTGG	CGACAGCAGAAACAGCA	PCR
<i>Crx</i> -/-	GCAGCGACAGCAGCAGAAACA	AGAAGCCGGGGCATAGGTCAT	PCR
(<i>Rd8</i>) <i>mCrb1</i> (mF1 R1)	GTGAAGACAGCTACAGTTCTGATC	GCCCCATTTGCACACTGATGAC	PCR
(<i>Rd8</i>) <i>mCrb1</i> (mF2 R1)	GCCCCTGTTTGCATGGAGGAAACTTGGAAGACAGCTACAGTTCTTCTG	GCCCCATTTGCACACTGATGAC	PCR
(<i>Rd1</i>) <i>mPde6b</i> (F <i>Rwt</i>)	TGACAATTACTCCTTTTCCCTCAGTCTG	GTAACAGCAAGAGGCTTTATTGGGAAC	PCR
(<i>Rd1</i>) <i>mPde6b</i> (F <i>Rmt</i>)	TGACAATTACTCCTTTTCCCTCAGTCTG	TACCCACCCCTCCTAATTTTTCTCACGC	PCR
qRT-PCR			
<i>mAbca4</i> RT	ACAATGTAGCCGTCTCCAAACTT	GTTCTCACTCCCACAGCAT	q-RTPCR
<i>mArr3</i> RT	CAGGAGTTCACAGAGACAGTAGC	CCTTGTTCCATTCCAGGTCG	q-RTPCR
<i>mCep290</i> RT	GCTGGTAGAAGTGGGAAGACA	TCAAAGTGCATACTCAACTGACG	q-RTPCR
(total) <i>mCrx</i> Int/Ex4-F/R RT	ACTACAAAGATCAGAGTGCCTGG	TAAAGGAGCTGAGGGTAGGAAAC	q-RTPCR
<i>mGapdh</i> RT	CACTGCCACTGCCACCCAGAAGACTG	CCCTGTTGCTGTAGCCAAAT	q-RTPCR
<i>mGnat1</i> RT	ACGATGGACCTAACACTTACGAGG	TGGAAAGGACGGTATTTGAGG	q-RTPCR
<i>mGnat2</i> RT	AGTCAAGACAACAGGCATCATCG	TCACTTCGTCATCCTCCACCAG	q-RTPCR
<i>mGrk1</i> RT	CGAGGAGACAAGGTAGAGAACAAGG	TCTGGGATGAATGGAGGAATGA	q-RTPCR
<i>mElovl4</i> RT	AATCAAGTGGGTGGCTGGAG	AGTGCTGTGTGCCGATG	q-RTPCR
<i>mMop</i> RT	GGTGGTGATGGTCTTCGCATAC	TTGGAGGTGCTGGAAAGTTCA	q-RTPCR
<i>mNrl</i> RT	TTCTGGTCTGACAGTGACTAGG	AAGGCTCCCGCTTTATTTT	q-RTPCR
<i>mOtx2</i> RT	ACTTGGCACAATCCAGGGTG	TGAGCCAGGATAGCCTTGAC	q-RTPCR
<i>mPde6b</i> RT	CAAGAAAGTGGGCACAGAAG	ATAGGCAGAGTCCGTATGC	q-RTPCR
<i>mPde6g</i> RT	GCAAGGGTTTGGGGATGACA	CGTGCAGCTCTAGGTGATTGAA	q-RTPCR
<i>mPde6h</i> RT	ACGGGAACACATTCCGGCTC	CCAGATGGGTGAACGCTTC	q-RTPCR
<i>mPrph2</i> RT	CACTACAGCTATGACCATCAGACT	GGGTTAGACACTCTCCAGC	q-RTPCR
<i>mRbp3</i> RT	CCAGAGGATGCCAAAGAGCG	CTTCCAGATGTGTTCTACCAGCA	q-RTPCR
<i>mRdh8</i> RT	GTTATGGGGCTTCAGGGTGT	GTTTTCTTCAAAGTCAGTGGTGA	q-RTPCR
<i>mRdh12</i> RT	GGCCAATCTGCTCTTCACTC	CCCCTGAGAAGTGGACTTGA	q-RTPCR
<i>mRho</i> RT	GCTTCCCTACGCCAGTGTG	CAGTGGATTCTTGCCGCAG	q-RTPCR
<i>mRom1</i> RT	CATGGCTACAAGGATTGGTTTGG	TCAAAGTGCATACTCAACTGACG	q-RTPCR
<i>mRxrg</i> RT	CGTGGAGAAGTCAACAAATGACCC	TGGATAAACCCCTTGGCATCTG	q-RTPCR
<i>mSag</i> RT	TGAACCTCTCAGTCTCCCTCA	AGGCTACAGGCTTGACGTAATAG	q-RTPCR
<i>mSop</i> RT	GCTGGACTTACGGCTTGTCAAC	TGTGGGGTTGTGTTTGTCTGG	q-RTPCR
<i>mTuba1B</i> RT	CAAGCTGGAGTCTCCATTTAC	GTGATAGATGGCCTCATTGTCT	q-RTPCR
<i>mTulp1</i> RT	CGCTGTGGTCTATGAAACCAAT	TGTAGGAGCCACTGTCTTCATT	q-RTPCR
<i>mUbb</i> RT	CAACATCCAGAAAGAGTCAACC	ATGTTGTAATCAGAGAGGGTGC	q-RTPCR