

Mouse PCR Primer Sets

Gene symbol	Primer sequence (5'-3') F: Forward, R: Reverse
Actc (actin, alpha, cardiac muscle 1)	F: GCC CCT AGC ACG CCT ACA G R: CTC CTC GTC GTC ACA CAT CCT
Anf (Nppa) (natriuretic peptide type A)	F: TAC AGT GCG GTG TCC AAC ACA GAT R: TGA CAC ACC ACA AGG GCT TAG GAT
β-Actin (Actb) (actin, beta)	F: TGT GAT GGT GGG AAT GGG TCA GAA R: TGT GGT GCC AGA TCT TCT CCA TGT
cTnI (Tnni3) (troponin I, cardiac 3)	F: TCA GGA CTT ATG CCG ACA GCT TCA R: TGT CCT CCT TCT TCA CCT GCT TGA
cTnT (Tnnt2) (troponin T2, cardiac)	F: AGG TTG GTC CTG ATG AAG AAG CCA R: TCA TCT ATT TCC AAC GCC CGG TGA
Flk1 (Kdr) (kinase insert domain protein receptor)	F: GGC GGT GGT GAC AGT ATC TT R: CTC GGT GAT GTA CAC GAT GC
FoxD3 (forkhead box D3)	F: ACT CTT ACA TCG CGC TCA TCA CCA R: ATC TTG ACG AAG CAG TCG TTG AGC
Gata4 (GATA binding protein 4)	F: TCT CAC TAT GGG CAC AGC AG R: GCG ATG TCT GAG TGA CAG GA
HPRT (hypoxanthine guanine phosphoribosyl transferase)	F: AGG AGT CCT GTT GAT GTT GCC AGT R: GGG ACG CAG CAA CTG ACA TTT CTA
Hrt1 (Hey1) (hairy/enhancer-of-split related with YRPW motif 1)	F: AGT GAG CTG GAC GAG ACC AT R: CTG GTA CCA GCC TTC TCA G
Mef2C (myocyte enhancer factor 2C)	F: ACT GGG AAA CCC CAA TCT TC R: ATC AGA CCG CCT GTG TTA CC
Myh6 (myosin, heavy polypeptide 6, non-muscle)	F: GGG AAG ACT GTG AAC ACA AAA CG R: CTT GCT ACG GTC CCC TAT GG
Myh7 (myosin, heavy polypeptide 7, non-muscle)	F: CTA CAG GCC TGG GCT TAC CT R: TCT CCT TCT CAG ACT TCC GC
Myl2 (myosin, light polypeptide 2, regulatory, cardiac, slow)	F: ACA CAC ACA CAC ACA GAG GAC AGT R: ACA TCG TGA GGA ACA CGG TGA AGT
Myl7	F: ATC TGA GAG TTC ACT TGG CTG CCT

(myosin, light polypeptide 7, regulatory)	R: AGA ACC TCA CCA CCT TCT GGG TTT
Nkx2.5 (NK2 transcription factor related, locus 5)	F: TGG GTC TCA ATG CCT ATG GCT ACA R: GAC GCC AAA GTT CAC GAA GTT GCT
Nanog (Nanog homeobox)	F: AAG CCA GGT TCC TTC CTT CTT CCA R: AGG TCA GGA GTT CAA ATC CCA GCA
Oct3/4 (Pou5f1) (POU domain, class 5, transcription factor 1)	F: AGC TGC TGA AGC AGA AGA GGA TCA R: TCT CAT TGT TGT CGG CTT CCT CCA
Serca2 (Atp2a2) (ATPase, Ca ²⁺ transporting, cardiac muscle, slow twitch 2)	F: CTG TGG AGA CCC TTG GTT GT R: CAG AGC ACA GAT GGT GGC TA
Tbx5 (T-box 5)	F: GGA GCC TGA TTC CAA AGA CA R: TTC AGC CAC AGT TCA CGT TC
Tubulin (tubulin, beta 2C)	F: TGC ACT TCT TCA TGC CTG GCT TTG R: GCA GCC ATC ATG TTC TTG GCA TCA
Sox17 (SRY-box containing gene 17)	F: CTT TAT GGT GTG GGC CAA AG R: GGT CAA CGC CTT CCA AGA CT
Pdx-1 (Pancreatic and duodenal homeobox 1)	F: CCC CAG TTT ACA AGC TCG CT R: CTC GGT TCC ATT CGG GAA AGG
Brachyury (Brachyury)	F: GCG GAC AAT TCA TCT GCT TG R: TGG GAT ACT GGC TAG AGC CA
Sox1 (SRY-box containing gene 1)	F: AAG GAA CAC CCG GAT TAC AAG T R: GTT AGC CCA GCC GTT GAC AT
FoxA2 (forkhead box A2)	F: CCC TAC GCC AAC ATG AAC TCG R: GTT CTG CCG GTA GAA AGG GA
Sox7 (SRY-box containing gene 7)	F: TGG ACA CGT ATC CCT ACG GG R: TCC TGA CAT GAG GAC GAG AAG
Pax4 (paired box gene 4)	F: GCA GTG TGA ATC AGC TAG GGG R: CAG GGT CGC ATC CCT CTT ATT
P48 (Ptf1a) (pancreas specific transcription factor, 1a)	F: TCC CAT CCC CTT ACT TTG ATG A R GTA GCA GTA TTC GTG TAG CTG G
Mist1 (Bhlha15) (basic helix-loop-helix family, member a15)	F: GCT GAC CGC CAC CAT ACT TAC R: TGT GTA GAG TAG CGT TGC AGG
Nkx6.1 (NK6 homeobox 1)	F: CTG CAC AGT ATG GCC GAG ATG R: CCG GGT TAT GTG AGC CCA A

α-SMA (alpha 2, smooth muscle, aorta)	F: ACG GCC GCC TCC TCT TCC TC R: GCC CAG CTT CGT CGT ATT CC
SM22α (SM22 alpha)	F: GCA GTC CAA AAT TGA GAA GA R: CTG TTG CTG CCC ATT TGA AG
Desmin (desmin)	F: TCG TAT TGA CCT GGA GCG CAG AAT R: ATG TTC TTA GCC GCG ATG GTC TCA
BMP2 (bone morphogenetic protein 2)	F: CTC CAC AAA CGA GAA AAG CG R: CAT GCC TTA GGG ATT TTG GA
Noggin (noggin)	F: AAG GAT CTG AAC GAG ACG R: GCA GGA ACA CTT ACA CTC G
Wt1 (Wilms tumor 1 homolog)	F: CCA GTG TAA AAC TTG TCA GCG A R: TGG GAT GCT GCA CTG TCT
Snail (snail homolog 1)	F: TCC AAA CCC ACT CGG ATG TGA AGA R: TTG GTG CTT GTG GAG CAA GGA CAT
Slug (Slug zinc finger protein)	F: CAC ATT CGA ACC CAC ACA TTG CCT R: TGT GCC CTC AGG TTT GAT CTG TCT
Otx2 (orthodenticle homeobox 2)	F: TTT ACT AGG GCA CAG CTC GAC G R: AAC CAT ACC TGC ACC CTG GAT T
Zic1 (zinc finger protein of the cerebellum 1)	F: CCC TAC CTT TGC AAG ATG TGC G R: GGA CCT TCA TGT GTT TAC GCA G
Nestin (Nestin)	F: CGG CCC ACG CAT CCC CCA TCC R: AGC GGC CTT CCA ATC TCT GTT CC
BMP4 (bone morphogenetic protein 4)	F: CTC CCA AGA ATC ATG GAC TG R: AAA GCA GAG CTC TCA CTG GT
Ngn (neurogenin)	F: CTT CAC AAG AAG TCT GAG AAC ACC AG R: CTG CGC ATA GCG GAC CAC AGC TTC
Pax6 (paired box gene 6)	F: GCA GAT GCA AAA GTCC CAG GTG R: CAG GTT GCG AAG AAC TCT GTT T
Isl1 (islet 1, transcription factor)	F: CGG AGA GAC ATG ATG GTG GTT R: GGC TGA TCT ATG TCG CTT TGC

Human PCR Primer Sets

Gene symbol	Primer sequence (5'-3') F: Forward, R: Reverse
Actc1 (actin, alpha, cardiac muscle 1)	F: TGA GAC CTT CAA TGT CCC TGC CAT R: TAG TGA TGA CTT GGC CAT CAG GCA
Anf (Nppa) (natriuretic peptide type A)	F: GAA CCA GAG GGG AGA GAC AGA G R: CCC TCA GCT TGC TTT TTA GGA G
β-Actin (Actb) (actin, beta)	F: CGC ACC ACT GGC ATT GTC AT R: TTC TCC TTG ATG TCA CGC AC
cTnI (Tnni3) (troponin I, cardiac 3)	F: CCT GCG GAG AGT GAG GAT CT R: TAG GCA GGA AGG CTC AGC TC
Gata4 (GATA binding protein 4)	F: CTC CCC TGG CAA AAC AAG AG R: TGC CGT GTC TTA GCA GTC GT
Myh6 (myosin, heavy polypeptide 6, non-muscle)	F: GTC ATT GCT GAA ACC GAG AAT G R: GCA AAG TAC TGG ATG ACA CGC T
Myh7 (myosin, heavy polypeptide 7, non-muscle)	F: AGA TGG ATG CTG ACC TGT CC R: GGT TTT TCC TGT CCT CCT CC
Myl2 (myosin, light polypeptide 2, regulatory, cardiac, slow)	F: GGC GCG TGA ACG TGA AAA AT R: CAG CAT TTC CCG AAC GTA AT
Myl7 (myosin, light polypeptide 7, regulatory)	F: GCT CTT TGG GGA GAA GCT CA R: CGT CTC CAT GGG TGA TGA TG
Serca2 (Atp2a2) (ATPase, Ca ²⁺ transporting, cardiac muscle, slow twitch 2)	F: TGG GCA AAG TGT ATC GAC AGG ACA R: CCG GAT CTT GCC AAT TTC GGT GTT

MSP Mouse Primers

Gene symbol	Primer sequence (5'-3') F: Forward; R: Reverse M: Methylated; U: Unmethylated
Gata4 (GATA binding protein 4)	MF: GAG ATA GGT TCG GAA ATT TGC MR: CTA ATT TCC GCC GAA ATT TT UF: TTG GAG ATA GGT TTG GAA ATT TGT UR: CCC TAA TTT CCA CCA AAA TTT TA
Nanog (Nanog homeobox)	MF: GAG GTT GTT AGG TTG TGT GTG TTA C MR: ACT ACA CAA AAA AAC CCT ATC TCG A UF: AGA GGT TGT TAG GTT GTG TGT GTT AT UR: ACT ACA CAA AAA AAC CCT ATC TCA AA
Nkx2.5 (NK2 transcription factor related, locus 5)	MF: GTT TCG CGT TAT TTG TTG TC MR: CGA CGC AAA TTT CAC AAC UF: GGT GTT TTG TGT TAT TTG TTG TT UR: CAA CAC AAA TTT CAC AAC ACC
Oct3/4 (Pou5f1) (POU domain, class 5, transcription factor 1)	MF: AAA AAA ACT CCT ACT ACA ACA ATC G MR: TAG TGT TTG AGG TGT AGA TTT GAT C UF: AAA AAC TCC TAC TAC AAC AAT CAC T UR: GTG TTT GAG GTG TAG ATT TGA TTG A
Serca2 (Atp2a2) (ATPase, Ca ²⁺ transporting, cardiac muscle, slow twitch 2)	MF: GAG GGG ATA GTT GTT CGC MR: ACT ACG AAA ACC CCG ACC UF: GGA GGG GAT AGT TGT TTG T UR: ACT ACA AAA ACC CCA ACC A
Sox2 (SRY-box containing gene 2)	MF: CGG AGT GGA AAT TTT TGT TC MR: ACA AAC CTC CGA AAA ACG TA UF: GTG GAG TGG AAA TTT TTG TTT UR: AAC AAA CCT CCA AAA ACA TA

Bisulfite sequencing PCR Primers

Gene symbol	Primer sequence (5'-3') F: Forward; R: Reverse
Gata4 (GATA binding protein 4)	F: GGG GTG TAG ATA GGA TAG TGT TTT R: TCC TTT TCC AAA AAT ACA AAA AAT
Nkx2.5 (NK2 transcription factor related, locus 5)	F: GTG TTA ATG TTT ATT TAT TAG GGG G R: TTC TCC CCA AAA ATT TTT AAC T