**Supplementary Table 1. mRNAs that may be involved in the ICH process and bind with miR-183-5p.**

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| --- | --- | --- |
| Putative targets of miR-183-5p after ICH | Differentially expressed mRNAs after ICH | mRNAs that may be involved in the ICH process and bind with miR-183-5p |
| Hk2Stk38lCapns1Grik3Foxn1HltfRgs20Ppp5cAbca13Hmox1Pcyt1aNapaApbb3Fzd3Dqx1Tmem8cPpp2cbAdamts13Efr3aPom121l2Ncor1Unc45bPank3Lhx9Sema6aKitlTmcc3Slc5a8Rnf185Mtif2CenpoMrc2HelzaminoacylaseAnkfy1Serpina3nCdc42bpbSlc6a3Rab3cBmpr1aOpn4Dcp1aNpr3Zscan26TrioRnf19aCsmd3DrosophilaCacna1iAtp13a3FRAGMENTPrkdcBirc6Pja2QpctSt6gal2Kdm4bTBPDnajc18Lama3LpxnKcnk4Tcf7l2monocarboxylic acid transportersPi4k2aDrosophilaIdh1Lancl1FRAGMENTRqcd1aminopeptidase BCcdc93Cacna1sNfascAdck3Kif26bCenpfUsh2aNebLrp2Spred1Kif3bNtsr1RalgapbSucnr1NbeaVeph1Notch2Fam198bAsh1lAsphDHHB-MTASEPtbp3Zdhhc21FRAGMENTCpt2Csf3rUfd2Mfn2Cd38Pgm1Flt1Cyp3a13Trim24Fam131b1700074P13RikTacr1Cntn3Cand2Rasgrp4F8AtrxFlnaArhgap6Mak16Sin3bAdgrg1Jak3Has3Abcc10Foxj3Myh2Ttf2Map2k4Clasp2IduaTmem35Asb13activator 1Ptgdr2Lrrc58Med13Gpatch8Fam171a2Tjp3Foxn2Tbr1Neu3S. cerevisiaeSyt1Ppp1r11Btg1Cdh8Cfap221Jade3TectaRaraArap2Mical2Sesn1Plcl1Tmem255bParp12Ric1Wdr26BpgmHrh3Zfp750Foxk29130011E15RikOlfr906Plcb2Gbp7Pitpnm3Dlk1ErfArhgef10lHectd2Katnal1Obox6Pramel1Ammecr1lKlhl23Ptchd4Tmem183aArel1Sin3aFam199xStk40Hfm1Fam160a2Fzd5PigwAsxl3Tmem86bLhfpl2Serpinb9C2cd2B430212C06RikOlfr914Slfnl1Rell1Tnrc6bKcna3Nwd1Phldb1Lrp1bRarres1Aff4Armcx4Arhgap23Olfr921Fam171a1Slc6a7Olfr901Olfr3521,4-BETA-N-ACETYLMURAMIDASEFate1Unc80Myh8Ero1lbE030024N20RikOlfr66Olfr25FragmentVwa8Olfr913HydinCtnna3Akap6Tgif2DgkkKcnj15Olfr911-ps1Ipcef1Med14Mir101bSerpina3fVmn2r37Adgrv1Znf41-psVmn2r42Gm5499Csf2rb2Myh7bB3galt5Yae1d1Lrrc55Emc1Cela3a1700024P16RikHoxd3Gm6071Vmn2r-ps2Gm11841Gm13050Gm14006Gm16421Setd3Gm14153Gm11839Gm12842Gm5883Gm14534Xlr3aGm13400Gm11251Gm12295Gm12381Gm14273Gm14204A230108P19Rik1500017E21RikGm13493Vmn2r94Vmn2r42Gcnt4Vmn1r-ps61Gm5117Olfr893Olfr904Olfr143Olfr907Vmn1r77Gm5558Gm183364933408J17RikGm5205Gm7063Gm20954Gm5835E330023G01RikGm6075Gm36569SnrpnGm6074IghLypla1C57BL/6J FemaleGm18555Gbp7Gm9523Gm5981Teddm3Gm19078UHGGm6063 | Lair1Akr1b8Cpt2Galnt12Olfml33010003L21RikMvpMx1Ercc6lBC030867Zmynd15Efcab11AdmNeil31700049L16RikStat5aBC055324Fgfrl1Pmp22Il21rIl1rapCol16a1Tgfb1Gm10693Cchcr1RhocC3AfpC1qbMgmtCst7Dennd1cTrip13Sgol1Fam64aCdca5Snap23Cd59bTmem378430408G22RikMs4a14Clec7aCklfLOC102640804MlphAA467197Mtus1Pctp4632428N05RikMeis1Ifngr1Oas1aP2ry10Bub1Fam26fGusbTrim30dRac2Plce1Slc16a3GsdmdMapkapk3Cd84Cdca7lPm20d1Lcp1Plxna4os1Ptx3Irx1Gimap1Serp1CflarBin2Csf1Plbd1Tbc1d4Lyl1Nek6Ms4a4aGm5150Gng5Ltc4sRad51TnfMcm7Lpar6Fam101aMcm4Cdca8P2ry6TmpoCcr1P2rx7Cd300lbIgfbp2Fam227bAnxa5BatfIgf2bp2Rrm2Plk1Hmox1Wdfy1Lmnb1F13a1Gm5127Gm2990Ly96MgarpDok1Car5bHavcr2Samsn1Birc5GmnnSlc14a1Galnt15Ulbp1Ncf2HbegfGfapCybaSynpoMyl12aSlc25a21Mb21d1Dennd2dTspan4Stat3Stab1Smad5Gngt2Laptm5Ube2cItgb5Cdc6Stard5Oas1aSusd3C1qcHist1h2anCutalCcnb2Tnfrsf1aGrnZfp36Glycam1XdhMns1Cdkn2aTax1bp3Gpr65Sirpb1bLiphSpicSpata6Nckap1lThemis2Slc6a19Cmtm7Cd109Asf1bTtkLaptm5Ppp3ccFcnaBcl3HcstLamp2Gm14625Lrrfip1Tacc3Nde1Ccl2Clec4nGlipr11190002F15RikHk2Cd180Csf2rbGm4907H2-AaEsyt1Klk6Hspb6Smc4Gm5593Fcgr2bKif18bNox4Sulf1Naalad2Mob1aAif1Hist1h2bqGldnTecAsap3Cd52Gm20746Gpx1PolePdlim5GltpGm5150Ccnb1Emp3Slco2b1C5ar2Mcm2Gm4610Ripk1Trem2Rnaset2aMmp3Nat2Nusap1GfapHist1h2abTcirg1Eme1Ttc12Slc16a10Slc29a3H2-Q7Gimap4Tgm1Prelid2KnstrnTyms-psCxcl16Plin2Rbm47Col4a1Gp49aApobrSteap4Smarcd2Spint14930519N06RikSlc25a13Nedd1Ftl1Myd88Clhc1Prss46XlrGm10684ErmardH2-K1CenppTmem140Ccl6Tor3aSlc7a7PycardDclre1bCks1bTfecSlfn2C5ar2Dpep2SykGm5637OsmrMr1Pqlc3Rab27a1810011H11RikRps6ka1Dapp1Ttc12Tmem252Pik3cgLpxnCapgTrim12cParp3Clec1bTnfaip8Ugt1a6bLgals9Pik3cgLynCntfIl10raCsf1rGm14005Syngr1Myo1fPkn3Cdk5rap23830403N18RikLilrb4Gdf3Arhgef39AdaEspl1Arhgap9Rab7l1Rnf135Apoc1CsprsLcn2Ddx11CtssSlamf6Plcd4Kntc1Apobec1Fabp4Esco2Kif20aUbe2tGm10487Msr1Ms4a4cMtrTnfsf9CenpkSlc25a45Hk3Lgals1LOC102640775CflarTnfrsf13bBirc5Cdkn2cKif2cPla2g4aPtgr1Krt85MdfiLgals3bp4632434I11Rik9630013D21RikMcm3Bcl6bMcm10DeraCenplTnfsf8Gins1LplPydc3PterP2ry13Runx1Gen1Ucp2Igfbp2Ms4a6bD8Ertd158eVwa5aB2mCttnbp2nlSgms2Gipc2Fignl1Lrp1Tlr7Cxcl1Phf11dBlnkSlc2a4Cpsf4lMefvTrim30bKlrd1Cpt1aC130050O18RikF11rHn1lCd14Dhrs4Sirpb1bB430306N03RikD730045A05RikKrtap11-1Prokr1Itga6SqrdlMarveld3Pip5k1aMcm3Pvrl2Ehd4Serpinf2Fermt3BC100530Tax1bp3Nxpe5Bub1bTmem176bH2-D1Timp2Pla1aE2f8LrmpHspb81700023L04RikGins22810442I21RikPrdx6Dbf4Cxcr4Ncf2Prdx6Fam25cAsphMtbpA2mDisc1Mmp81700023E05RikGm10872Tagln2ItgaxEzh2Mrc1PirbMgst1Slc16a102810417H13RikTrim47Bmp2kB4galt1Ccnb1Cks2RenbpRaet1eRab7l1NesBoraGpr160Gm5086Ap1s21700112E06RikCdc25cCd72Irf9Slc43a1PolnNod2Cx3cr1Aff1Adap2Ncf4Tgfbr2Ip6k3Mcoln3Gm2030Gm5934Pik3r5Slc11a1Dlgap5SeleS100a11Thbs1NcaphEfemp2Eif2ak2Tnfaip2Cd300lfSpc25CebpaP4hbHmgb22610020H08RikSirpb1aCxcl10Hmha1Rasa4Epha2Adam3Ifi204Emp1Anxa3Gpr114Csf1Cd38Syngr2Angpt2Olfr920Pira7Trim12cGal3st44930427A07RikCenplSp140SrgnTlr2Rbm47Serpina3nGpr183Psors1c2Mmp2Serpinb5Mki67Abcc3Ms4a4bHoxb4Ifitm1Rgs1Fgl1Alox5Inadl5430427O19RikSlc16a6Mmp134930556M19RikGltpFcgr4PdpnLy86Tlr4Ifit3Arhgap30Rab13Gcnt1Spint1Fcgr3Lcp2Rgs21Ifi203Baz1aPdlim4MaffAhnakCasp4CfhCd48Fam129aBC026585Slc30a7Gm6583Ncapg2Gm13272Lrrc25CenphDdx60Usp18Nsl19530051G07RikCybbGpr35Vps13cPld4Gxylt1Galnt12LifrHpgdA530064D06RikJam2XlrSlamf7Nt5dc2LOC102641688Cd200r4Tgif1H2-K2Alox5apSh3bp2Glipr2Gm5547Cdca84930579G24RikEcscrClic1Dna2Tec4632428N05RikLat2Il4raTmem154Tmed10Oas1fPlscr1Arhgap19Kcnk6Golm1Kif4Hist1h2ahCfhr2Kif11Slfn4AurkaNeat1Sh2d1b1CfhCcl24Map3k8PyglArhgef15Slc35d2Sp110Trim30aA630033H20RikCebpdRab3il1Pde3bSkap2Chtf18Prc1Igfbp7Tnfrsf26Casp8Oit3Padi4E030003E18RikFesKif23MdficLilrb4Slc31a22210406H18RikAcer2ClspnFlncNqo2Igf1Cyp4f16Il6KnstrnCd1d1FesAurkbSpata6Cpne3CenpkKdelr3Cdt1Dock8Fhod1A130071D04RikApobec3Mcm6Agbl25430435G22RikChrdl1Slc37a2ParpbpP2ry2Ccl11AA667203Inpp5dAnxa4Cx3cr14933440N22RikTmem173Bmp2kSpc24Itga5Sirpb1aTraf3ip3Ccl12Stag3Lgals3bpGpr84Mmp19Trpm3Vav1C4bCdc6Orc11700001K23RikAhnakOasl1Gdf15GmipPalldIl1aTicam2Brca1Cln5Ormdl2Nuf2Tlr6Ppap2cFasLrr1Cd44Wipf1Tlr1Fgl24930486L24RikMki67BC028528NplIfi30LOC545966Lcp1Col5a3A330015K06RikSka1Cd200r1Cnn3MndaZcwpw1Nox4Adcy7NcapgWdfy4Tnfrsf23S1pr26330407A03RikCxcl5GalmDdx21Psmb8Gpsm3BtkNfam1Gm5532Akr1c13Lpin3Slc43a3Aldh1l2Fam227bHckCdk1Loxl2AI607873Rbl1Tubb6Spp1Fxyd1Prdx6MycCasc5Rrbp1Itgb1Ska3Ugt1a10Osgin1Bst1Ddx58CenpeCtshFam83dAngptl4Mmp27Cd33Dock2Ccnb1GsapPrune2Emr1C530044C16RikCd48Ascc2Treml28030462N17RikSnx20Cd86Tpx24930427A07RikMicall2Cmtm2aTns3Ldlrap1Itgb1Mcm5Rnase4Map4k4Spi1Cd63Tnfrsf18Hrsp12Cd37Birc3Gm5168Zc3hav1Tor4aNrrosPlk4Cela1Tuba1cCcr5DhhVimTbxas1Trpv4Bcl2a1cHist1h1bIl2rgIl13ra1Cdk2Pyhin1TaglnMyo1gIl15CtszAnxa2Ms4a6dCd9Myo1fArhgdibGtse1Gm1993FybNhlrc3Dscc1Psma8Ckap2lCdkn3SlpiFam46cSlamf9Rsad2Dyrk4Fli1Ntrk2Pram1Cysltr1Lilra6Gpr34S100a16Reep4Naip1Pon3Rom1Hist1h2agTnfrsf1bPlaurHcls1PdpnGm16340Cep72Gm2030Igfbp3Sgol2Adam8E2f2Cdk15031414D18RikFblim1Hist1h4iAspgAB124611Il1r2Cks1b1810034E14RikIl10rbArhgap11aHvcn1Cyth4MdficTfpi2Pf4H2-K2Gm8995Ftl1Smim3Irak4Clca2Npc2PtprcHist1h1cCtla2bTgm2Serpine1VwfSdc1Acp5Adora3LtbrCdc20BtcGch1Ch25hTnfrsf12aVangl1Gatsl3Igsf6Stfa2l1CymLOC102633627Rad51ap1Arg1Lrrfip1Ddx43Pira11LipaCsf1Rbl1Csf1rHfeMir17hgTrim16Gas2l3Nsl1Vav1PterArpc1bTroapEhd4Cdca3Matn3Fn1Il2rbIqgap3RenbpWasFlnaE2f7Phox2aVsig4HhexSlfn10-psDuoxa1Carhsp1Trim34aTgfbiB3gnt5Srebf2TspoI830077J02RikArhgap11aEcm1Hmga2GpnmbFbxo5Ptpn7G6pd2Sash3Folr2Dtx3lRacgap1S100a4GmfgSlco1a5Nek2Slc6a11Trim34bArhgap11aParvaGalnt6Gm11545Ptpn6Ms4a7Foxm1DapNrasHist1h2aoGm14625HpgdsMab21l3Mfsd7aEps15l1PilraHtr2bTesParvgUbe2cMpeg1Lonrf3H2-Ab1PbkSkor19630023C09RikTnfaip8Unc93b1CenpfLOC102638793Lcp2PilraTgfbr2Pyhin1ApodRbms1A630001G21RikSerpina3iGpamCtsdGm8675Cep128AI429363SerhlCpt2Fosl1Lacc1Dlgap5Ifi27l2aVwa5aFcgr1Cd36Mt1Socs3Tcn2Ccl3Klhl6CenpaCkap2SparcEmilin2Cd68FancaLy9MetrnKifc1Abca1Traf3ip2Stat3Ikzf1Gcnt1Kif23Nmnat34933432I03RikCmtm2aPlcg2Abhd15Rbm3Tpx2Sbno2Upk3blTlr13MsnH2-DMb1S100a6Sdf2l1B3gnt5Lgals3Exo1CtslCamk2dFam111aFignl1Atf7SparcNaip2Pla2g5Aim2Fcer1gC1qaStx11Uhrf1Gm4297Creg1Card9Msr1Tmem176bTimp1Cybrd1Nfatc1Slco2b1AU022793Plscr2Pyroxd2Sdc4Spata1Ttf2Nid2MastlCsf2rb2Brip1Slc40a19330175E14RikRcbtb2Lhfpl2Tmem525730416F02RikFam89aCcnd1AI467606Tm4sf1RhojC5ar1HexbSusd3SpidrChaf1aTrim30e-ps1Itpripl2Adamts1Tram1Ampd3Chek2Tmem220Cdca2Birc5Spata13Ifi204Tmem194Tnfaip2Fmo2EpxStt3aH2-T10LOC1026395431700009J07RikGm9999Gm16428Irf8Gm9895CtscErmardNanogLrig1CytipTpm4Slfn3Mybl2Cep55Abi3Frmd8Bag3Tmod3Tnfsf13bHeatr5aPros1Slc10a6Tnpo1Pbxip1LOC102639543Asb10A430104N18RikPtafrCnn3ZwilchCtsdHcar2Sgpl1Cnn3VwfGpx8AspmSlc1a5PilraCysltr1ApodGm5414Vamp8Pyhin1Pald1CenpiZwilchH2-T3Ccdc69Sbno2Fabp7Irak3SlxTagln2Dhx58Cd93PlauEfcab4bAnkle1PolhDbiEct2Mboat1C330027C09RikCenpnDdcKif18aCcl5Nde1Serpina3iSlaIkzf1TmpoEvi2a-evi2bSirpb1aClec4eCx3cr1Ccl9Arl11Itgb2Casp4Tor3aCd1d1Olfml3Hapln2Mxd3FcrlsNpm1Clec4a3Mcl1Gm9999Hvcn1Kif2cClec4dCcna2Diap3Cd79bSlc16a9Frrs1H2-Ab1Mybl1Parp9Hells4930469K13RikCcdc18Depdc1aBard1Gm8013Zc3h12dTlr7Cmtm3AI317395Saa3Ms4a4cIl1r1Igf1Sh3tc1GfapGalnt4AcadsCcr2LgmnHn1lFybRhocHmox1Apbb1ipHes3TyrobpPnp2610203C22RikCd300lfGm5068Bst2Lrrk1MelkIfi35F7Pole2Mrps6Tuba1cLrr1Shmt1Wipf1AF251705Emr1Rad54lClec1bZc3h12aPbxip1Ptbp3HexaMfsd1Tnni2Arl5cPbxip1Rtp4Pira2Rassf4Kpna2Sh3glb1Fut4Hist1h3g1300002K09RikInsl6Ang3Lrrk1Tln1Ms4a6cUgt1a6aCybaSkor1Phldb3Tmem106aSp140CcnfBtkKif15Rhbdf2Epsti1Tmem176aHsd3b7Phf11bDnase1l1Acp5Ostf1Sult6b1PpicKcnn4MafbNek6BC055324AI607873Sucnr1Top2aMmp12PlekTlcd2Bcl2a1dProcrCyp1b1Runx1Has2Ccl7P2rx7Plscr1Chst25033418A18RikNeurl3Slc16a3F10AplnFgl1Plekhg2Ggta1Ifitm1Col2a1Rab32Chil1Gpr137bDhrs1Asb7Shcbp1Slc4a11Rnf213Phf11dTmem119Slamf8Chaf1bPrdx1Rps27lHpgdMapk1ip1lTrfGm14548Sft2d2Dab2Gsg2Ttc12Lyz1Ncf1Creb3l2CpIer3FanciRab20Tep1Mis18bp1Ptger4I830012O16RikTrfCpne3Gsg12310075C17RikCreg1Ctla2aGmnnScarb2Wfdc17GrapEcm1Dnaic2Ppbp2200002D01RikDecr1Creg1AI427809Rtkn2Pstpip1TicrrC3ar1Prdx69330188P03RikKif20bIgf2bp2Oip5CastIfih1Phf11aTmco4Cotl1Dennd2cMlecC1s1Lamp2Icam1Parp14S100a4Gm5431Slc37a2Upp1Atf3Ptpn18Cd72G630090E17RikEce2Arhgap18Ptplad2SmagpLplUcp3Xrcc2Akr1c12Rrm1LitafTk1Slc15a3Nt5dc1Haus4Mt2Lyz2Ripk3Smpdl3bNaip6Irf5Elk3Cd68Bst1Il7rI830012O16RikMgst1 | Hk2Hmox1Serpina3nLpxnCenpfSucnr1AsphPtbp3Cpt2Cd38FlnaTtf2Lhfpl2Csf2rb2 |