Table 1. Select list of gene mutations requested by the *Xenopus* community

Disease, organ or pathway	Gene	Disease, organ or pathway	Gene
Lung	gli2, gli3, nkx2.1, shh, tcf1, cftr, sox5	Kidney disease	pkd1, pkd2, pkhd1, vegfr3, shroom3, bicc1, irx3, wt1, wnt4, foxc2, lhx1, nphs1
Cancer	dtl (cdt2), meis3, cdknx, casp3, ccnd1, mcl1, ahr1a, ahr1b, per1, arntl, ptk7, axin1, axin2, lgr4, lgr5, sox21, sox3, fus, tra2b, rbmx, sam68, sf3b4, rnpdl, esrp2, upf1, snai2, apc, erf, etv3	Neurological diseases	zic1, zic2, kcnj8, hcn1, mycn, fxr1a, tdgf1, htt, inhbb, foxp1, foxp2, dal, fuz, vangl2, olig3, ascl1, grin1, psen1, sox2, ucp2, app, bace1, sod1, tardbp, ngn2, gad65, gad67, trkB, twist, snai1, snai2, sox9, sox10, mecp2, fmr1b, fxr1a, pqbp1, nlgn3
Ciliopathies	wdpcp, prickle1, ccdc78, foxj1, ccdc40, ccdc63, lrrc45, lrrc71, iqch, iqcg, iqce, ccno	Limb development and regeneration	chrd, pou91, hoxc9, hand2, tfap2b, nav1.2, sik1, lrp5, snip1, pais4
Heart defects	nkx2.5, zic3, hand2, casz1, tbx5, kcnj2, slc6a4	Leukemia	runx1, etv6, gfi1a, miR-142, eto2, tal1
Craniofacial	msx1, msx2, runx2, cf3b4, tfap2b	Metabolic disorders	lep, lepr, npy, pomc, hmgcr, fpps, ar
Eye disorders	rho, prph2, pax6, otx2, sox2, bcor, six1, eya1, ift20, arrb1	Thyroid disorders	dio1, dio2, dio3, mct8, thrA, thrB, lat1, mmp11
Immune system disorders	aire, foxp3, cyba, cybb, foxc2, foxd3	Waardenburg syndrome	pax3, ednrb, edn3, sox10, mitf
TGF-beta pathway	smad1, smad2, smad3, smad4, vg1, bmp1, bmp2, bmp3, bmp4, bmp7, smurf1, smurf2	Organizer	nodal, nodal1, nodal2, nodal3, nodal5, nodal6, chrd, fst, twsg, szld, fz7, cer1, admp
Wnt pathway	axin1, apc, dsh, gsk3b, wnt5a, wnt8, lrp5, lrp6, lef1, tcf1, tcf3, tcf4	Liver and Pancreas	szl, tll1, hhex, foxa2, sox2, prox1, hnf1b, rfx6, glis3, insm1, insm2, hhex, map3k13