

**Table S1. Control genes.**

<b>ToxoDB ID</b>	<b>Name</b>	<b>Category</b>	<b>PMID</b>
TGGT1_292055	<i>CDPK8</i>	dispensable	26755159
TGGT1_295760	<i>CDPK4A</i>	dispensable	26755159
TGGT1_217600	<i>CDPK9</i>	dispensable	26755159
TGGT1_240390	<i>CDPK4B</i>	dispensable	26755159
TGGT1_232130	<i>TLAP1</i>	dispensable	26680740
TGGT1_235380	<i>TLAP3</i>	dispensable	26680740
TGGT1_225490	<i>CDPK2</i>	dispensable	26651943
TGGT1_205380	<i>FBP1</i>	dispensable	26269956
TGGT1_297880	<i>GRA23</i>	dispensable	25974303
TGGT1_255190	<i>MYOC</i>	dispensable	25393004
TGGT1_283510	<i>IAP1</i>	dispensable	25393004
TGGT1_246940	<i>GAP80</i>	dispensable	25393004
TGGT1_228400	<i>PX4</i>	dispensable	25329540
TGGT1_243400	<i>PX1</i>	dispensable	25329540
TGGT1_309870	<i>PX3</i>	dispensable	25329540
TGGT1_253770	<i>MAF1</i>	dispensable	24781109
TGGT1_306620	<i>AP2IX-9</i>	dispensable	23572590
TGGT1_305860	<i>CDPK3</i>	dispensable	23226109
TGGT1_205480	<i>ISP4</i>	dispensable	22659420
TGGT1_310160	<i>AGO</i>	dispensable	22309152
TGGT1_286590	<i>SPM2</i>	dispensable	22021240
TGGT1_201840	<i>ASP1</i>	dispensable	21616070
TGGT1_205250	<i>ROP18</i>	dispensable	21147463
TGGT1_233030	<i>GAP70</i>	dispensable	20951968
TGGT1_260820	<i>ISP1</i>	dispensable	20844581
TGGT1_262730	<i>ROP16</i>	dispensable	20624917
TGGT1_204130	<i>PLP1</i>	dispensable	19095897
TGGT1_277080	<i>MIC5</i>	dispensable	16980407
TGGT1_263180	<i>MYOD</i>	dispensable	16470333
TGGT1_250880	<i>AK</i>	dispensable	15140885
TGGT1_227620	<i>GRA2</i>	dispensable	9712765
TGGT1_312480	<i>UPRT</i>	dispensable	9566522
TGGT1_309590	<i>ROP1</i>	dispensable	8235614
TGGT1_233460	<i>SAG1</i>	dispensable	7821410
TGGT1_315760	<i>AP2XI-4</i>	dispensable	23240624
TGGT1_294690	<i>ROM5</i>	dispensable	25336455
TGGT1_254555	<i>GCN5-A</i>	dispensable	16400169
TGGT1_282055	<i>PP2Chn</i>	dispensable	17085638
TGGT1_254470	<i>MYR1</i>	dispensable	26838724
TGGT1_319560	<i>MIC3</i>	dispensable	15684324
TGGT1_289910	<i>HAD2a</i>	essential (other)	26840427
TGGT1_203010	<i>ARK3</i>	essential (other)	26833682
TGGT1_254120	<i>ATG8</i>	essential (other)	26507233
TGGT1_247510	<i>FBP2</i>	essential (other)	26269956
TGGT1_312570	<i>MAPKL1</i>	essential (other)	25734885
TGGT1_274000	<i>SFI1</i>	essential (other)	25734885
TGGT1_313380	<i>ILP1</i>	essential (other)	25691595
TGGT1_215700	<i>PI3K</i>	essential (other)	25329540
TGGT1_256960	<i>PIKfyve</i>	essential (other)	25329540

TGGT1_311470	<i>RON5</i>	essential (other)	24651769
TGGT1_243440	<i>GCN5B</i>	essential (overexpression)	24391497
TGGT1_228750	<i>CDPK7</i>	essential (other)	24011186
TGGT1_267810	<i>RAB5A</i>	essential (overexpression)	23505371
TGGT1_312050	<i>RAB2</i>	essential (overexpression)	23505371
TGGT1_257340	<i>RAB4</i>	essential (overexpression)	23505371
TGGT1_261440	<i>ARO</i>	essential (other)	23498954
TGGT1_240910	<i>DOC2.1</i>	essential (other)	22246776
TGGT1_253040	<i>ARP4A</i>	essential (other)	21963440
TGGT1_216080	<i>AKMT</i>	essential (other)	21909263
TGGT1_223940	<i>GAP45</i>	essential (other)	20951968
TGGT1_301440	<i>CDPK1</i>	essential (other)	20485436
TGGT1_255370	<i>TIC20</i>	essential (other)	18757752
TGGT1_245490	<i>MIC8</i>	essential (other)	18319299
TGGT1_293690	<i>PFR</i>	essential (other)	18312842
TGGT1_235470	<i>MYOA</i>	essential (other)	12399593
TGGT1_243250	<i>MYOH</i>	essential (other)	26760042
TGGT1_311310	<i>CNA</i>	essential (other)	26118996
TGGT1_249970	<i>APH</i>	essential (other)	26962945
TGGT1_227970	<i>HU</i>	essential (other)	22611021
TGGT1_220400	<i>ADF</i>	essential (other)	21346192
TGGT1_261070	<i>APT1</i>	essential (other)	20036630
TGGT1_287270	<i>PPP1</i>	essential (other)	22144892
TGGT1_278870	<i>MYOF</i>	essential (other)	23695356
TGGT1_209030	<i>ACT1</i>	essential (other)	26081631
TGGT1_462965	<i>FRM1</i>	essential (other)	20949068
TGGT1_310440	<i>MORN1</i>	essential (other)	20808817
TGGT1_236110	<i>ATG3</i>	essential (other)	22144900
TGGT1_290160	<i>SORTLR</i>	essential (other)	22607804
TGGT1_311360	<i>PKG</i>	essential (other)	15003497
TGGT1_244380	<i>CACTIN</i>	essential (other)	22486860