

Appendix 3: Raw Data Reference Genes

Reference Gene	Date	Sample	Treatment	Cq Mean	(ng)	(ul/ng)	(ng) x 10	Copy Number
eEF1A	10415	Bealy	New	21.14763654	0.034484228	0.008621057	0.086210569	696123181.7
eEF1A	10415	Bealy	New	21.14763654	0.034484228	0.008621057	0.086210569	696123181.7
eEF1A	10415	Bealy	New	20.56730938	0.050999803	0.012749951	0.127499508	1029518356
eEF1A	10415	LP256	New	19.75214062	0.088366883	0.022091721	0.220917207	1783836838
eEF1A	10415	LP256	New	23.56313005	0.00676467	0.001691167	0.016911674	136556441
eEF1A	10415	LP256	New	20.6681421	0.047647463	0.011911866	0.119118657	961845623.2
eEF1A	10415	LP258	New	20.62435554	0.04907526	0.012268815	0.122688151	990668160.8
eEF1A	10415	LP258	New	21.88839749	0.020926167	0.005231542	0.052315418	422430517.3
eEF1A	10415	LP258	New	21.50445766	0.027109776	0.006777444	0.067774441	547257256.2
eEF1A	10415	R141	New	21.21314255	0.032994166	0.008248542	0.082485416	666043742.5
eEF1A	10415	R141	New	22.82220167	0.011148757	0.002787189	0.027871892	225056744.9
eEF1A	10415	R141	New	20.67147059	0.047540642	0.01188516	0.118851604	959689252.2
eEF1A	10415	R164	New	21.60843218	0.025274184	0.006318546	0.06318546	510202678.8
eEF1A	10415	R164	New	22.20993659	0.016847188	0.004211797	0.042117969	340089331.3
eEF1A	10415	R164	New	23.46800952	0.007212777	0.001803194	0.018031943	145602256
eEF1A	17216	Bealy	New	18.46243121	0.210852687	0.052713172	0.527131717	4256422518
eEF1A	17216	Bealy	New	18.46243121	0.210852687	0.052713172	0.527131717	4256422518
eEF1A	17216	Bealy	New	18.61916638	0.1897053	0.047426325	0.474263249	3829526298
eEF1A	17216	LP256	New	19.05869209	0.141047364	0.035261841	0.352618409	2847282545
eEF1A	17216	LP256	New	18.57046047	0.1960392	0.0490098	0.490097999	3957386911
eEF1A	17216	LP256	New	20.10386906	0.069708599	0.01742715	0.174271498	1407187431
eEF1A	17216	LP258	New	18.74347066	0.174452473	0.043613118	0.436131181	3521621866
eEF1A	17216	LP258	New	19.07662366	0.13935217	0.034838043	0.348380425	2813062160
eEF1A	17216	LP258	New	19.56111465	0.10051508	0.02512877	0.251287701	2029069007
eEF1A	17216	R141	New	18.85103276	0.162247389	0.040561847	0.405618473	3275241356
eEF1A	17216	R141	New	19.9007435	0.079941334	0.019985334	0.199853336	1613752711
eEF1A	17216	R141	New	20.14752403	0.0676865	0.016921625	0.16921625	1366367897

eEF1A	17216	R164	New	18.63402743	0.187813768	0.046953442	0.469534421	3791342497
eEF1A	17216	R164	New	19.03879746	0.14295228	0.03573807	0.357380701	2885736552
eEF1A	17216	R164	New	19.91630589	0.079106828	0.019776707	0.197767069	1596906765
eEF1A	18915	Bealy	New	22.39136376	0.014907222	0.003726806	0.037268055	300927801.5
eEF1A	18915	Bealy	New	22.08014269	0.018388122	0.00459703	0.045970305	371195727.7
eEF1A	18915	Bealy	New	21.40522911	0.028985772	0.007246443	0.072464431	585127445.8
eEF1A	18915	LP256	New	21.70940047	0.023610692	0.005902673	0.059026731	476622250.9
eEF1A	18915	LP256	New	22.41809302	0.014640944	0.003660236	0.036602361	295552533.3
eEF1A	18915	LP256	New	22.12234581	0.01787221	0.004468052	0.044680524	360781156.6
eEF1A	18915	LP258	New	22.26016293	0.01628616	0.00407154	0.0407154	328764029.6
eEF1A	18915	LP258	New	20.80342209	0.043493387	0.010873347	0.108733467	877988480.7
eEF1A	18915	LP258	New	21.92714058	0.020386555	0.005096639	0.050966386	411537510.4
eEF1A	18915	R141	New	20.64412642	0.048425347	0.012106337	0.121063367	977548539
eEF1A	18915	R141	New	22.14783679	0.017567633	0.004391908	0.043919083	354632755.6
eEF1A	18915	R141	New	21.5235803	0.026762452	0.006690613	0.066906129	540245913.4
eEF1A	18915	R164	New	22.80224614	0.01129979	0.002824948	0.028249476	228105617.9
eEF1A	18915	R164	New	21.97444924	0.019746474	0.004936618	0.049366185	398616387.9
eEF1A	18915	R164	New	22.06380241	0.01859185	0.004647962	0.046479625	375308325.1
eEF1A	10415	Bealey	Old	17.76280145	0.337959563	0.084489891	0.844898908	6822292453
eEF1A	10415	Bealey	Old	19.46276472	0.107407069	0.026851767	0.268517672	2168195593
eEF1A	10415	Bealey	Old	18.47934526	0.208461512	0.052115378	0.521153779	4208152550
eEF1A	10415	LP256	Old	18.22729392	0.247080669	0.061770167	0.617701671	4987746360
eEF1A	10415	LP256	Old	18.81653871	0.166065437	0.041516359	0.415163592	3352315190
eEF1A	10415	LP256	Old	19.05881063	0.141036089	0.035259022	0.352590223	2847054953
eEF1A	10415	LP258	Old	18.57591745	0.195319162	0.048829791	0.488297905	3942851722
eEF1A	10415	LP258	Old	19.3465119	0.116165547	0.029041387	0.290413867	2345000469
eEF1A	10415	LP258	Old	19.00782198	0.145969531	0.036492383	0.364923827	2946644913
eEF1A	10415	R141	Old	18.87910353	0.159205194	0.039801298	0.398012985	3213829437
eEF1A	10415	R141	Old	19.66271774	0.093859212	0.023464803	0.234648029	1894708897

eEF1A	10415	R141	Old	18.3735953	0.223869336	0.055967334	0.559673341	4519185877
eEF1A	10415	R164	Old	19.41696214	0.110776104	0.027694026	0.27694026	2236205336
eEF1A	10415	R164	Old	19.61358007	0.097021236	0.024255309	0.242553089	1958539765
eEF1A	10415	R164	Old	20.29576787	0.061247597	0.015311899	0.153118993	1236387618
eEF1A	17216	Bealey	Old	17.76280145	0.337959563	0.084489891	0.844898908	6822292453
eEF1A	17216	Bealey	Old	19.46276472	0.107407069	0.026851767	0.268517672	2168195593
eEF1A	17216	Bealey	Old	18.47934526	0.208461512	0.052115378	0.521153779	4208152550
eEF1A	17216	LP256	Old	18.22729392	0.247080669	0.061770167	0.617701671	4987746360
eEF1A	17216	LP256	Old	18.81653871	0.166065437	0.041516359	0.415163592	3352315190
eEF1A	17216	LP256	Old	19.05881063	0.141036089	0.035259022	0.352590223	2847054953
eEF1A	17216	LP258	Old	18.57591745	0.195319162	0.048829791	0.488297905	3942851722
eEF1A	17216	LP258	Old	19.3465119	0.116165547	0.029041387	0.290413867	2345000469
eEF1A	17216	LP258	Old	19.00782198	0.145969531	0.036492383	0.364923827	2946644913
eEF1A	17216	R141	Old	18.87910353	0.159205194	0.039801298	0.398012985	3213829437
eEF1A	17216	R141	Old	19.66271774	0.093859212	0.023464803	0.234648029	1894708897
eEF1A	17216	R141	Old	18.3735953	0.223869336	0.055967334	0.559673341	4519185877
eEF1A	17216	R164	Old	19.41696214	0.110776104	0.027694026	0.27694026	2236205336
eEF1A	17216	R164	Old	19.61358007	0.097021236	0.024255309	0.242553089	1958539765
eEF1A	17216	R164	Old	20.29576787	0.061247597	0.015311899	0.153118993	1236387618
eEF1A	18915	Bealey	Old	19.90428297	0.079750766	0.019937692	0.199376915	1609905766
eEF1A	18915	Bealey	Old	20.92352266	0.040109933	0.010027483	0.100274834	809687684.6
eEF1A	18915	Bealey	Old	21.17213605	0.03391922	0.008479805	0.08479805	684717533.8
eEF1A	18915	LP256	Old	22.12938659	0.01778756	0.00444689	0.044468899	359072349.1
eEF1A	18915	LP256	Old	22.55466706	0.013352838	0.003338209	0.033382095	269549896.6
eEF1A	18915	LP256	Old	21.98896031	0.019554198	0.00488855	0.048885495	394734971.4
eEF1A	18915	LP258	Old	20.9217548	0.040157776	0.010039444	0.100394441	810653476.1
eEF1A	18915	LP258	Old	20.88875066	0.041061506	0.010265376	0.102653764	828896801.2
eEF1A	18915	LP258	Old	22.79422317	0.011361087	0.002840272	0.028402719	229343003.5
eEF1A	18915	R141	Old	21.89983387	0.020765413	0.005191353	0.051913532	419185409.1

eEF1A	18915	R141	Old	22.28344281	0.016032499	0.004008125	0.040081248	323643444.1
eEF1A	18915	R141	Old	18.27597469	0.239101705	0.059775426	0.597754262	4826677314
eEF1A	18915	R164	Old	20.36767838	0.058348563	0.014587141	0.145871406	1177865643
eEF1A	18915	R164	Old	21.20806994	0.033107216	0.008276804	0.08276804	668325846.9
eEF1A	18915	R164	Old	19.40801378	0.111446543	0.027861636	0.278616359	2249739304
eEF1A	18915	R164	Old	19.40801378	0.111446543	0.027861636	0.278616359	2249739304
TBP-1	10415	Bealy	New	23.25320904	0.018691249	0.004672812	0.046728123	380683755.2
TBP-1	10415	Bealy	New	23.77331646	0.012783275	0.003195819	0.031958188	260356340.6
TBP-1	10415	Bealy	New	22.98352215	0.022761056	0.005690264	0.05690264	463573306.4
TBP-1	10415	LP256	New	23.15158275	0.020131574	0.005032894	0.050328935	410018776.4
TBP-1	10415	LP256	New	24.5736632	0.007124334	0.001781084	0.017810835	145100963.3
TBP-1	10415	LP256	New	24.41865986	0.007978417	0.001994604	0.019946043	162496029.9
TBP-1	10415	LP258	New	23.04681493	0.021732702	0.005433176	0.054331756	442628879
TBP-1	10415	LP258	New	23.63068668	0.014186958	0.003546739	0.035467395	288945071.1
TBP-1	10415	LP258	New	23.11750755	0.020638949	0.005159737	0.051597372	420352453.6
TBP-1	10415	R141	New	23.0595753	0.021531074	0.005382769	0.053827686	438522330.9
TBP-1	10415	R141	New	25.06928974	0.004960372	0.001240093	0.012400931	101027659.9
TBP-1	10415	R141	New	24.66778944	0.006650957	0.001662739	0.016627393	135459720
TBP-1	10415	R164	New	23.16286996	0.019966274	0.004991569	0.049915686	406652126.5
TBP-1	10415	R164	New	23.97358895	0.011043551	0.002760888	0.027608877	224923455.4
TBP-1	10415	R164	New	26.94408627	0.001261141	0.000315285	0.003152852	25685589.36
TBP-1	17216	Bealy	New	21.5465227	0.065021754	0.016255439	0.162554386	1324294867
TBP-1	17216	Bealy	New	21.99378155	0.046899973	0.011724993	0.117249934	955209450.2
TBP-1	17216	LP256	New	22.55775606	0.031064205	0.007766051	0.077660512	632683129
TBP-1	17216	LP256	New	21.89681167	0.050342505	0.012585626	0.125856262	1025323317
TBP-1	17216	LP256	New	21.7672445	0.055339858	0.013834965	0.138349645	1127104165

TBP-1	17216	LP258	New	21.94026651	0.048769627	0.012192407	0.121924067	993288588.8
TBP-1	17216	LP258	New	21.88175723	0.05089916	0.01272479	0.1272479	1036660687
TBP-1	17216	LP258	New	22.51773455	0.031985744	0.007996436	0.07996436	651452072.1
TBP-1	17216	Plate	New	22.78863243	0.026243286	0.006560822	0.065608215	534495716.6
TBP-1	17216	R141	New	21.41487945	0.071584749	0.017896187	0.178961873	1457963065
TBP-1	17216	R141	New	22.57474024	0.030681195	0.007670299	0.076702987	624882382.2
TBP-1	17216	R141	New	22.25356394	0.038793644	0.009698411	0.09698411	790108237.9
TBP-1	17216	R164	New	21.54091346	0.065288716	0.016322179	0.16322179	1329732066
TBP-1	17216	R164	New	21.71003428	0.057701502	0.014425375	0.144253754	1175203643
TBP-1	17216	R164	New	23.04863716	0.021703794	0.005425949	0.054259485	442040104.3
TBP-1	18915	Bealy	New	24.0699941	0.010292613	0.002573153	0.025731534	209629151.1
TBP-1	18915	Bealy	New	23.54107501	0.015146672	0.003786668	0.03786668	308491523.8
TBP-1	18915	Bealy	New	23.52898005	0.015281084	0.003820271	0.03820271	311229084.7
TBP-1	18915	LP256	New	22.91959628	0.023849096	0.005962274	0.05962274	485733362.6
TBP-1	18915	LP256	New	24.8250485	0.0059292	0.0014823	0.014823	120759726.7
TBP-1	18915	LP256	New	24.52347253	0.007390376	0.001847594	0.018475939	150519415.8
TBP-1	18915	LP258	New	22.38047443	0.035359014	0.008839754	0.088397535	720155298.2
TBP-1	18915	LP258	New	23.61873908	0.014311313	0.003577828	0.035778282	291477802.1
TBP-1	18915	LP258	New	24.3653944	0.008294962	0.00207374	0.020737405	168943082.4
TBP-1	18915	Plate	New	24.21803627	0.009237651	0.002309413	0.023094127	188142775.1
TBP-1	18915	R141	New	23.5548151	0.014995411	0.003748853	0.037488528	305410805.2
TBP-1	18915	R141	New	25.77517199	0.002961992	0.000740498	0.007404979	60326740.36
TBP-1	18915	R141	New	24.62025879	0.006885929	0.001721482	0.017214822	140245375.8
TBP-1	18915	R164	New	24.60768993	0.00694944	0.00173736	0.0173736	141538905.3
TBP-1	18915	R164	New	23.59965357	0.014512227	0.003628057	0.036280567	295569812.6

TBP-1	10415	LP256	Old	25.48806669	0.003653118	0.000913279	0.009132794	74402864.93
TBP-1	10415	Bealey	Old	25.18630796	0.00455399	0.001138497	0.011384974	92750880.28
TBP-1	10415	Bealey	Old	24.09964835	0.01007206	0.002518015	0.02518015	205137149.4
TBP-1	10415	Bealey	Old	24.94685127	0.005424454	0.001356113	0.013561135	110479587
TBP-1	10415	LP256	Old	23.53854807	0.015174656	0.003793664	0.03793664	309061471.1
TBP-1	10415	LP256	Old	23.66527799	0.013832979	0.003458245	0.034582447	281735597.4
TBP-1	10415	LP258	Old	23.51677413	0.015417938	0.003854485	0.038544846	314016391.6
TBP-1	10415	LP258	Old	23.63981176	0.014092709	0.003523177	0.035231773	287025511.1
TBP-1	10415	LP258	Old	27.12269306	0.001106887	0.000276722	0.002767217	22543909.93
TBP-1	10415	R141	Old	23.74344017	0.013065317	0.003266329	0.032663292	266100662.8
TBP-1	10415	R141	Old	22.6713766	0.028590111	0.007147528	0.071475278	582293390.1
TBP-1	10415	R141	Old	24.14199839	0.009765251	0.002441313	0.024413127	198888378.3
TBP-1	10415	R164	Old	22.89134541	0.024346362	0.006086591	0.060865906	495861163.1
TBP-1	10415	R164	Old	23.14735953	0.020193774	0.005048443	0.050484434	411285594.3
TBP-1	10415	R164	Old	25.1781894	0.004581076	0.001145269	0.011452691	93302553.54
TBP-1	17216	LP256	Old	21.52644	0.065982629	0.016495657	0.164956572	1343864955
TBP-1	17216	Bealey	Old	21.38254911	0.073295417	0.018323854	0.183238541	1492804139
TBP-1	17216	Bealey	Old	23.50166205	0.015589076	0.003897269	0.038972691	317501950.8
TBP-1	17216	Bealey	Old	23.45391624	0.01614236	0.00403559	0.040355899	328770644.5
TBP-1	17216	LP256	Old	21.73971107	0.056464125	0.014116031	0.141160313	1150002058
TBP-1	17216	LP256	Old	21.5660299	0.064101814	0.016025454	0.160254535	1305558490
TBP-1	17216	LP258	Old	21.3442557	0.075374565	0.018843641	0.188436414	1535150064
TBP-1	17216	LP258	Old	22.78528627	0.026307509	0.006576877	0.065768773	535803746.2
TBP-1	17216	LP258	Old	21.60308398	0.06239007	0.015597518	0.155975176	1270695492
TBP-1	17216	R141	Old	21.31636963	0.076925664	0.019231416	0.192314161	1566741215

TBP-1	17216	R141	Old	22.1101817	0.043077096	0.010769274	0.10769274	877349091.4
TBP-1	17216	R141	Old	21.84077284	0.05244599	0.013111498	0.131114976	1068164902
TBP-1	17216	R164	Old	22.90240791	0.024150419	0.006037605	0.060376048	491870395.3
TBP-1	17216	R164	Old	22.7989961	0.026045368	0.006511342	0.06511342	530464726.2
TBP-1	17216	R164	Old	22.7989961	0.026045368	0.006511342	0.06511342	530464726.2
TBP-1	18915	R164	Old	22.659	0.028849755	0.007212439	0.072124389	587581549.1
TBP-1	18915	LP256	Old	24.52766879	0.007367757	0.001841939	0.018419393	150058749.5
TBP-1	18915	Bealey	Old	26.48957272	0.001757725	0.000439431	0.004394314	35799508.55
TBP-1	18915	Bealey	Old	23.94724472	0.011258124	0.002814531	0.028145311	229293665.4
TBP-1	18915	Bealey	Old	24.81818376	0.005959006	0.001489752	0.014897516	121366787.6
TBP-1	18915	LP256	Old	22.50978301	0.032172067	0.008043017	0.080430167	655246903.6
TBP-1	18915	LP256	Old	23.75511144	0.012954403	0.003238601	0.032386008	263841692.4
TBP-1	18915	LP258	Old	22.59701024	0.030186131	0.007546533	0.075465327	614799437.7
TBP-1	18915	LP258	Old	23.35072315	0.01740618	0.004351545	0.043515449	354510804.1
TBP-1	18915	LP258	Old	27.57721387	0.00079417	0.000198542	0.001985425	16174818.32
TBP-1	18915	R141	Old	22.91360262	0.076925664	0.019231416	0.192314161	1566741215
TBP-1	18915	R141	Old	22.28669218	0.043077096	0.010769274	0.10769274	877349091.4
TBP-1	18915	R141	Old	23.54791855	0.05244599	0.013111498	0.131114976	1068164902
TBP-1	18915	R164	Old	23.63043368	0.01418958	0.003547395	0.03547395	288998474.6
TBP-1	18915	R164	Old	23.24457851	0.018809456	0.004702364	0.04702364	383091266.9
TBP-1	18915	R164	Old	25.07345102	0.004945318	0.001236329	0.012363294	100721038