

Sample	Colonies	% decrease in viability (x 100)	Initial Fluorescence	Fluorescence after Photobleaching	Initial Absorbance (OD)	Final Absorbance (OD)
KillerRed 1	2208	0.100977199	14760	9391	0.4014	0.399599999
KillerRed 1 Control	2456		13054	11234	0.41170001	0.419
KillerRed 2	2080	-0.048387097	10506	7930	0.416200012	0.4454
KillerRed 2 Control	1984		9586	8284	0.433800012	0.430099994
KillerRed 3	1152	0.2	8615	5556	0.425599992	0.463499993
KillerRed 3 Control	1440		7934	6717	0.462900013	0.465299994
Codon Optimized KillerRed 1	1128	-0.540983607	40038	27523	0.520699978	0.534799993
Codon Optimized KillerRed 1 Control	732		39300	32469	0.531799972	0.538800001
Codon Optimized KillerRed 2	1068	0.3325	40069	26393	0.448399991	0.467200011
Codon Optimized KillerRed 2 Control	1600		36434	34288	0.466699988	0.476799995
Codon Optimized KillerRed 3	996	-1.110169492	41946	27174	0.475899994	0.488099992
Codon Optimized KillerRed 3 Control	472		38375	33262	0.488700002	0.4903
Codon Optimized Supernova 1	554	0.65375	16523	9273	0.446099997	0.457599998
Codon Optimized Supernova 1 Control	1600		14045	12616	0.458900005	0.431499988
Codon Optimized Supernova 2	952	0.091603053	15512	8438	0.425999999	0.460000008
Codon Optimized Supernova 2 Control	1048		14288	16822	0.448000014	0.462199986
Codon Optimized Supernova 3	324	0.839920949	15153	9602	0.435600013	0.474400014
Codon Optimized Supernova 3 Control	2024		13832	13461	0.450199991	0.440800011

Colony Averages from Viability Tests

Samples	photobleached avg	photobleached stdDev	control avg	control StdDev
KillerRed	1813.333333	576.2962201	1960	508.4250191
KillerRed Condon Optimized	1064	66.09084657	934.6666667	590.6787057
Supernova Codon Optimized	610	317.7231499	1557.333333	489.3969078

Decrease in RFU from Photobleaching

Samples	photobleached avg	photobleached Stddev	initial (photobleaching) avg
KillerRed	7625.666667	1935.528438	11293.66667
KillerRed Condon Optimized	27030	578.5991704	40684.33333
Supernova Codon Optimized	9104.333333	600.0502757	15729.33333

Samples	control avg	control stdDev	initial (control) avg
KillerRed	8745	2293.515424	10191.33333
KillerRed Condon Optimized	33339.66667	911.9837352	38036.33333
Supernova Codon Optimized	14299.66667	2224.888836	14055