Library #1 tube #2 tube#3 PCR tube #1 0.7 ul DNA + 1.4 ul 1 mM Tris analyze 1 ul Pass BioAnalyzer Analysis 0.5 ul DNA 0.5 ul DNA 0.5 ul DNA +0.5 ul 1 mM Tris **♦** +0.5 ul 1 mM Tris **♦** +0.5 ul 1 mM Tris Quantitation by Qubit Fluorometer 7 ng Library #1 + Library #2 + Library #3 7 ng 7 ng Combine 3 PCR reactions for sequencing Save remaining DNA 0.8X AmPure XP beads DNA purification in separate tubes eluted DNA with $7.5\,\mathrm{ul}\,1\,\mathrm{mM}$ Tris pH8.0 Pooling of equal quantity of DNA from ≤20 libraries each flow cell Final sequencing library NovaSeq6000 BioAnalyzer Analysis 0.5 ul DNA+0.5 ul 1 mM Tris Qubit Quantitation 1 ul DNA

Post PCR Enrichment Assessment and Workflow for Crypt Library Sequencing

Figure S1 Workflow of post PCR quality assessment and library pooling for crypt libraries.

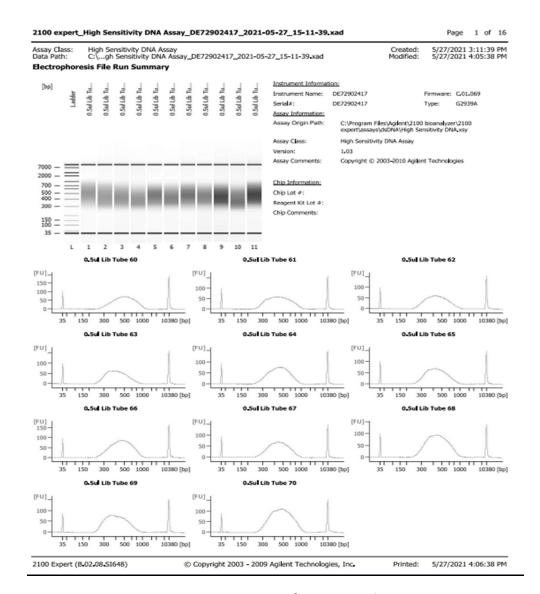


Figure S2 A representative assay output from BioAnalyzer.

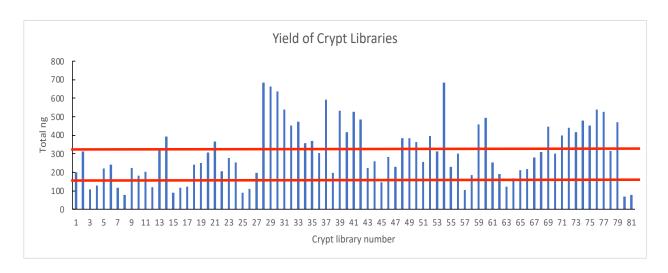


Figure S3 Total DNA quantity of 81 crypt libraries. Each bar presents the quantity of DNA yielded from each of the 81 crypt libraries. Each of the three PCR tubes from the same library contains 11.5 ul of DNA and quantity of the DNA in each PCR tube is calculated based on the quantitation of 0.5 ul of DNA from the specific PCR tube by Qubit assay. The total DNA quantity of the final crypt libraries is the sum of the amount of DNA in three PCR tubes of the same library. The two red horizontal lines indicate the expected range of yield (160 ng to 320 ng) from 6 ng of input DNA with 10 PCR cycles of enrichment using the NEBNext Ultra DNA ibrary Prep Kit according to the manufacturer.

Table S1 Whole Genome Sequencing Post-Allignment Output

Individual	Sample_IDs	Library type	Reads Mapped (x10 ⁶)	% Aligned	(bp)	Median Coverage	Bases ≥ 10X	Bases ≥ 20X	Bases ≥ 30X	% Duplica- tions	% G0
1	KUNUSCCLH_0001_LibTube01_T1 KUNUSCCLH_0001_LibTube11_T2	Crypt Crypt	1474.0 1411.2	100% 100%	304 283	42 34	95% 95%	94% 92%	90% 71%	16% 19%	40% 39%
	KUNUSCCLH_0001_LibTube19_T3	Crypt	1319.9	100%	309	39	95%	94%	86%	19%	40%
	KUNUSCCLH_0001_LibTube70_T4	Crypt	1440.7	100%	286	44	95%	94%	90%	15%	41%
	KUNUSCCLH_0001_LibTube77_T5 KUNUSCCLH_0001_LibTube81_C1	Crypt Bulk	1280.2 1277.1	96% 99%	285 286	40 38	95% 95%	94%	84% 72%	18% 17%	43%
	KUNUSCCLH_0001_LibTube01_C1 KUNUSCCLH_0002_LibTube02_T1	Crypt	1519.1	100%	259	44	96%	93%	87%	11%	43%
	KUNUSCCLH_0002_LibTube05_T2	Crypt	1239.3	100%	268	37	95%	90%	73%	21%	42%
2	KUNUSCCLH_0002_LibTube12_T3	Crypt	1706.0	100%	293	47	96%	94%	88%	18%	40%
	KUNUSCCLH_0002_LibTube26_T4 KUNUSCCLH_0002_LibTube71_T5	Crypt Crypt	1355.5 1288.2	100% 100%	241 290	34 39	94% 96%	84% 92%	63% 83%	11% 19%	42%
	KUNUSCCLH_0002_LibTube71_15 KUNUSCCLH_0002_LibTube82_C1	Bulk	1260.8	99%	285	39	96%	92%	82%	10%	41%
	KUNUSCCLH_0003_LibTube06_T1	Crypt	1728.5	100%	245	48	95%	94%	90%	19%	42%
	KUNUSCCLH_0003_LibTube13_T2	Crypt	1431.4	100%	283	35	95%	93%	78%	15%	40%
3	KUNUSCCLH_0003_LibTube20_T3 KUNUSCCLH_0003_LibTube27_T4	Crypt	1569.4	100%	318	47	95%	94%	92%	14%	40%
	KUNUSCCLH_0003_LibTube27_T4 KUNUSCCLH_0003_LibTube28_T5	Crypt Crypt	1769.6 1192.6	100% 100%	248 297	35 35	95% 95%	92% 93%	74% 76%	18% 16%	41%
	KUNUSCCLH_0003_LibTube83_C1	Bulk	1149.6	99%	257	32	95%	92%	65%	17%	41%
	KUNUSCCLH_0004_LibTube07_T1	Crypt	1500.3	100%	234	42	95%	93%	81%	16%	42%
	KUNUSCCLH_0004_LibTube14_T2	Crypt	1457.9	100%	282	45	95%	94%	91%	18%	41%
4	KUNUSCCLH_0004_LibTube21_T3 KUNUSCCLH_0004_LibTube29_T4	Crypt Crypt	1156.0 1178.6	100% 100%	286 265	35 36	95% 95%	93% 92%	76% 72%	15% 15%	40%
	KUNUSCCLH_0004_LibTube72_T5	Crypt	1254.7	100%	278	38	95%	94%	83%	16%	41%
	KUNUSCCLH_0004_LibTube84_C1	Bulk	1080.0	99%	278	33	95%	92%	67%	17%	41%
	KUNUSCCLH_0005_LibTube08_T1	Crypt	1789.2	100%	252	45	96%	93%	86%	19%	41%
	KUNUSCCLH_0005_LibTube15_T2 KUNUSCCLH_0005_LibTube22_T3	Crypt Crypt	1252.8 1347.5	100% 100%	302 258	39 40	96% 96%	92% 91%	82% 78%	16% 18%	40%
5	KUNUSCCLH_0005_LibTube22_13 KUNUSCCLH_0005_LibTube30_T4	Crypt	1930.1	100%	258	51	96%	91%	90%	18%	42%
	KUNUSCCLH_0005_LibTube42_T5	Crypt	2008.1	100%	278	60	96%	95%	92%	19%	42%
	KUNUSCCLH_0005_LibTube85_C1	Bulk	1349.9	99%	302	41	95%	90%	75%	16%	44%
	KUNUSCCLH_0006_LibTube16_T1	Crypt	1478.3	100%	282	33	95%	89%	66%	24%	40%
	KUNUSCCLH_0006_LibTube23_T2 KUNUSCCLH_0006_LibTube31_T3	Crypt Crypt	1732.5 1655.3	98% 100%	322 247	53 49	96% 96%	95% 94%	90% 89%	19% 12%	41%
6	KUNUSCCLH_0006_LibTube43_T4	Crypt	1525.2	100%	277	46	96%	93%	86%	16%	42%
	KUNUSCCLH_0006_LibTube78_T5	Crypt	1401.5	95%	280	43	96%	93%	86%	18%	43%
	KUNUSCCLH_0006_LibTube86_C1	Bulk	1319.4	99%	259	39	96%	91%	76%	21%	439
	KUNUSCCLH_0007_LibTube09_T1 KUNUSCCLH_0007_LibTube17_T2	Crypt Crypt	1687.1 1318.7	100% 100%	254 289	44 35	96% 95%	91% 90%	80% 73%	21% 16%	429
	KUNUSCCLH_0007_LibTube17_12 KUNUSCCLH_0007_LibTube24_T3	Crypt	1259.8	100%	273	39	96%	91%	79%	15%	429
7	KUNUSCCLH_0007_LibTube32_T4	Crypt	1499.4	100%	243	43	96%	92%	83%	19%	42%
	KUNUSCCLH_0007_LibTube55_T5	Crypt	1093.3	100%	269	34	95%	88%	65%	15%	429
	KUNUSCCLH_0007_LibTube87_C1	Bulk	1737.2	99%	254	51	96%	94%	87%	20%	43%
	KUNUSCCLH_0008_LibTube10_T1 KUNUSCCLH_0008_LibTube18_T2	Crypt Crypt	1473.4 1398.5	100% 100%	235 273	38 33	95% 95%	88% 90%	71% 69%	18% 18%	439
	KUNUSCCLH_0008_LibTube18_T2	Crypt	1464.6	100%	292	46	96%	93%	86%	14%	429
8	KUNUSCCLH_0008_LibTube33_T4	Crypt	1655.6	100%	261	48	96%	94%	88%	17%	42%
	KUNUSCCLH_0008_LibTube62_T5	Crypt	1455.1	100%	247	39	95%	90%	75%	14%	43%
	KUNUSCCLH_0008_LibTube88_C1 KUNUSCCLH_0009_LibTube34_T1	Bulk	1279.3 1118.7	99% 100%	263 306	39 34	95% 95%	90%	74% 71%	14% 17%	43%
	KUNUSCCLH_0009_LibTube46_T2	Crypt Crypt	1333.6	99%	280	31	95%	89%	59%	14%	47%
9	KUNUSCCLH_0009_LibTube56_T3	Crypt	1132.0	100%	301	32	95%	89%	63%	15%	40%
9	KUNUSCCLH_0009_LibTube63_T4	Crypt	1814.7	100%	231	45	95%	89%	77%	20%	44%
	KUNUSCCLH_0009_LibTube73_T5 KUNUSCCLH_0009_LibTube89_C1	Crypt Bulk	1364.7 1108.8	100% 99%	277 285	37 36	96% 95%	91%	80% 73%	15% 17%	41%
	KUNUSCCLH_0010_LibTube35_T1	Crypt	2035.0	100%	312	58	96%	95%	92%	20%	41%
	KUNUSCCLH_0010_LibTube47_T2	Crypt	1912.3	99%	272	49	96%	94%	89%	19%	41%
10	KUNUSCCLH_0010_LibTube64_T3	Crypt	1334.4	99%	259	35	95%	85%	64%	16%	43%
	KUNUSCCLH_0010_LibTube79_T4 KUNUSCCLH_0010_LibTube80_T5	Crypt	1150.7 1340.6	93% 94%	293 285	34 40	95% 96%	90% 92%	71% 83%	18% 17%	42%
	KUNUSCCLH 0010 LibTube90 C1	Crypt Bulk	1194.1	94%	259	36	95%	87%	68%	15%	43%
	KUNUSCCLH_0011_LibTube36_T1	Crypt	1242.9	100%	306	38	96%	91%	80%	16%	41%
	KUNUSCCLH_0011_LibTube48_T2	Crypt	1127.1	99%	302	33	95%	89%	66%	16%	41%
11	KUNUSCCLH_0011_LibTube52_T3	Crypt	1480.1	100%	251	39	96%	91%	77%	17%	42%
	KUNUSCCLH_0011_LibTube57_T4 KUNUSCCLH_0011_LibTube65_T5	Crypt	1182.9 1455.5	100%	305 248	37	96% 95%	91% 88%	78% 69%	19% 20%	419
	KUNUSCCLH_0011_LibTube91_C1	Bulk	2519.7	99%	268	78	96%	96%	94%	18%	44%
	KUNUSCCLH_0012_LibTube03_T1	Crypt	1214.1	100%	276	34	95%	90%	71%	17%	41%
12	KUNUSCCLH_0012_LibTube37_T3	Crypt	1182.8		291	37	96%	91%	76%	20%	42%
	KUNUSCCLH_0012_LibTube49_T4 KUNUSCCLH_0012_LibTube53_T5	Crypt Crypt	1195.0 1294.0		286 245	35 35	96% 95%	91% 86%	75% 65%	17% 16%	41%
	KUNUSCCLH_0012_LibTube98_T6	Crypt	1618.1		240	37	96%	90%	74%	20%	44%
	KUNUSCCLH_0012_LibTube99_T7	Crypt	1639.3	93%	257	34	95%	89%	69%	20%	449
	KUNUSCCLH_0012_LibTube92_C1	Bulk	1202.7	100%	284	38	95%	88%	69%	13%	44%
	KUNUSCCLH_0013_LibTube38_T1 KUNUSCCLH_0013_LibTube50_T2	Crypt Crypt	1186.5 1242.7	100% 100%	306 281	38 36	95% 95%	93% 94%	82% 80%	17% 16%	419
	KUNUSCCLH_0013_LibTube50_12 KUNUSCCLH_0013_LibTube58_T3	Crypt	1865.0		281	30	95%	94%	52%	21%	519
13	KUNUSCCLH_0013_LibTube66_T4	Crypt	1291.3		263	36	95%	90%	71%	16%	429
	KUNUSCCLH_0013_LibTube74_T5	Crypt	1831.7		272	54	95%	95%	94%	16%	419
	KUNUSCCLH_0013_LibTube93_C1	Bulk	1617.8	_	210	38 34	94%	85% 93%	66% 75%	17% 9%	459
	KUNUSCCLH_0014_LibTube39_T1	Crypt Crypt	1335.3 1526.1	92% 96%	299 294	34 44	95% 95%	93%	75% 91%	16%	439
	KUNUSCCLH 0014 LibTuhe51 T2		1403.6	95%	260	34	95%	92%	71%	21%	43%
14	KUNUSCCLH_0014_LibTube51_T2 KUNUSCCLH_0014_LibTube54_T3	Crypt	1403.0		314	35	95%	94%	78%	23%	429
14	KUNUSCCLH_0014_LibTube54_T3 KUNUSCCLH_0014_LibTube59_T4	Crypt Crypt	1521.3				0.00/			430/	439
14	KUNUSCCLH_0014_LibTube54_T3 KUNUSCCLH_0014_LibTube59_T4 KUNUSCCLH_0014_LibTube67_T5	Crypt Crypt Crypt	1521.3 1383.9	94%	256	32	95%	89%	62%	13%	
14	KUNUSCCLH_0014_LibTube54_T3 KUNUSCCLH_0014_LibTube59_T4 KUNUSCCLH_0014_LibTube67_T5 KUNUSCCLH_0014_LibTube94_C1	Crypt Crypt Crypt Bulk	1521.3 1383.9 2962.1	94% 99%	191	60	93%	86%	77%	14%	
14	KUNUSCCLH 0014 LibTube54 T3 KUNUSCCLH 0014 LibTube59 T4 KUNUSCCLH 0014 LibTube67 T5 KUNUSCCLH 0014 LibTube94 C1 KUNUSCCLH 0015 LibTube40 T1	Crypt Crypt Crypt Bulk Crypt	1521.3 1383.9 2962.1 1471.9	94% 99% 100%	191 282	60 45	93% 96%	86% 93%	77% 84%	14% 15%	429
	KUNUSCCLH_0014_LibTube54_T3 KUNUSCCLH_0014_LibTube59_T4 KUNUSCCLH_0014_LibTube67_T5 KUNUSCCLH_0014_LibTube94_C1	Crypt Crypt Crypt Bulk	1521.3 1383.9 2962.1	94% 99% 100% 99%	191	60	93%	86%	77%	14%	429 419
14	KUNUSCCIH 0014 LIbTube54 T3 KUNUSCCH 0014 LIbTube59 T4 KUNUSCCH 0014 LIbTube67 T5 KUNUSCCH 0014 LIbTube67 T5 KUNUSCCH 0015 LIbTube44 C1 KUNUSCCH 0015 LIbTube40 T1 KUNUSCCH 0015 LIbTube40 T2 KUNUSCCH 0015 LIbTube60 T3 KUNUSCCH 0015 LIbTube68 T4	Crypt Crypt Crypt Bulk Crypt Crypt Crypt Crypt Crypt Crypt Crypt	1521.3 1383.9 2962.1 1471.9 1606.3 1617.9 1319.8	94% 99% 100% 99% 100% 100%	191 282 272 291 257	60 45 42 47 36	93% 96% 96% 96% 95%	86% 93% 93% 94% 86%	77% 84% 86% 88% 67%	14% 15% 21% 16% 17%	429 419 419 439
	KUNUSCCH 0014 LIBTUDE54 T3 KUNUSCCH 0014 LIBTUDE59 T4 KUNUSCCH 0014 LIBTUDE67 T5 KUNUSCCH 0014 LIBTUDE67 T5 KUNUSCCH 0015 LIBTUDE64 T1 KUNUSCCH 0015 LIBTUDE64 T1 KUNUSCCH 0015 LIBTUDE64 T2 KUNUSCCH 0015 LIBTUDE68 T4 KUNUSCCH 0015 LIBTUDE65 T5 KUNUSCCH 0015 LIBTUDE65 T5	Crypt Crypt Crypt Bulk Crypt Crypt Crypt Crypt Crypt Crypt Crypt Crypt Crypt	1521.3 1383.9 2962.1 1471.9 1606.3 1617.9 1319.8 1417.8	94% 99% 100% 99% 100% 100% 100%	191 282 272 291 257 242	60 45 42 47 36 41	93% 96% 96% 96% 95% 95%	86% 93% 93% 94% 86% 91%	77% 84% 86% 88% 67% 78%	14% 15% 21% 16% 17% 17%	42% 41% 41% 43% 43%
	KUNUSCCH 0014 LIBTUDE54 T3 KUNUSCCH 0014 LIBTUDE59 T4 KUNUSCCH 0014 LIBTUDE67 T5 KUNUSCCH 0014 LIBTUDE67 T5 KUNUSCCH 0015 LIBTUDE94 C1 KUNUSCCH 0015 LIBTUDE94 T2 KUNUSCCH 0015 LIBTUDE94 T2 KUNUSCCH 0015 LIBTUDE68 T4 KUNUSCCH 0015 LIBTUDE68 T4 KUNUSCCH 0015 LIBTUDE68 T4 KUNUSCCH 0015 LIBTUDE57 T5 KUNUSCCH 0015 LIBTUDE57 T5 KUNUSCCH 0015 LIBTUDE95 C1	Crypt Crypt Bulk Crypt Bulk	1521.3 1383.9 2962.1 1471.9 1606.3 1617.9 1319.8 1417.8 2490.2	94% 99% 100% 99% 100% 100% 99%	191 282 272 291 257 242 192	60 45 42 47 36 41 56	93% 96% 96% 96% 95% 95%	86% 93% 93% 94% 86% 91%	77% 84% 86% 88% 67% 78% 82%	14% 15% 21% 16% 17% 17% 18%	429 419 419 439 439 469
	KUNUSCCH 0014 LibTube54 T3 KUNUSCCH 0014 LibTube59 T4 KUNUSCCH 0014 LibTube67 T5 KUNUSCCH 0014 LibTube67 T5 KUNUSCCH 0015 LibTube94 C1 KUNUSCCH 0015 LibTube40 T1 KUNUSCCH 0015 LibTube40 T2 KUNUSCCH 0015 LibTube60 T3 KUNUSCCH 0015 LibTube68 T4 KUNUSCCH 0015 LibTube68 T4 KUNUSCCH 0015 LibTube75 T5 KUNUSCCH 0015 LibTube75 C1 KUNUSCCH 0015 LibTube75 C1 KUNUSCCH 0015 LibTube75 C1	Crypt Crypt Bulk Crypt	1521.3 1383.9 2962.1 1471.9 1606.3 1617.9 1319.8 1417.8 2490.2	94% 99% 100% 99% 100% 100% 99%	191 282 272 291 257 242 192 301	60 45 42 47 36 41 56 38	93% 96% 96% 96% 95% 95% 95% 95%	86% 93% 93% 94% 86% 91% 91%	77% 84% 86% 88% 67% 78% 82% 79%	14% 15% 21% 16% 17% 17% 18%	429 419 419 439 439 469 419
15	KUNUSCCH 0014 LIBTUDE54 T3 KUNUSCCH 0014 LIBTUDE59 T4 KUNUSCCH 0014 LIBTUDE67 T5 KUNUSCCH 0014 LIBTUDE67 T5 KUNUSCCH 0015 LIBTUDE94 C1 KUNUSCCH 0015 LIBTUDE94 T2 KUNUSCCH 0015 LIBTUDE94 T2 KUNUSCCH 0015 LIBTUDE68 T4 KUNUSCCH 0015 LIBTUDE68 T4 KUNUSCCH 0015 LIBTUDE68 T4 KUNUSCCH 0015 LIBTUDE57 T5 KUNUSCCH 0015 LIBTUDE57 T5 KUNUSCCH 0015 LIBTUDE95 C1	Crypt Crypt Bulk Crypt Bulk	1521.3 1383.9 2962.1 1471.9 1606.3 1617.9 1319.8 1417.8 2490.2	94% 99% 100% 99% 100% 100% 100% 99% 99%	191 282 272 291 257 242 192	60 45 42 47 36 41 56	93% 96% 96% 96% 95% 95%	86% 93% 93% 94% 86% 91%	77% 84% 86% 88% 67% 78% 82%	14% 15% 21% 16% 17% 17% 18%	42% 41% 41% 43% 43% 46% 41%
	KUNUSCCH 0014 LIBTUDE54 T3 KUNUSCCH 0014 LIBTUDE57 T4 KUNUSCCH 0014 LIBTUDE67 T5 KUNUSCCH 0014 LIBTUDE67 T5 KUNUSCCH 0015 LIBTUDE64 T1 KUNUSCCH 0015 LIBTUDE64 T1 KUNUSCCH 0015 LIBTUDE64 T2 KUNUSCCH 0015 LIBTUDE65 T3 KUNUSCCH 0015 LIBTUDE65 T4 KUNUSCCH 0015 LIBTUDE65 T5 KUNUSCCH 0015 LIBTUDE65 T5 KUNUSCCH 0015 LIBTUDE67 T5 KUNUSCCH 0016 LIBTUDE64 T1 KUNUSCCH 0016 LIBTUDE64 T1 KUNUSCCH 0016 LIBTUDE64 T2	Crypt Crypt Bulk Crypt	1521.3 1383.9 2962.1 1471.9 1606.3 1617.9 1319.8 1417.8 2490.2 1260.6 1178.2	94% 99% 100% 99% 100% 100% 100% 99% 99%	191 282 272 291 257 242 192 301 272	60 45 42 47 36 41 56 38 33	93% 96% 96% 96% 95% 95% 95% 95%	86% 93% 93% 94% 86% 91% 91% 91%	77% 84% 86% 88% 67% 78% 82% 79% 65%	14% 15% 21% 16% 17% 17% 18% 17%	47% 42% 41% 41% 43% 43% 46% 41% 42% 44% 41%

Table S2 Genotyping relatness between crypt vs. bulk using Plinkv1.9.

Bulk ID		Crypt_ID	DST	PPC.	72	PI HAT
	D0000 C4 KINACCII A0000C			11		
KUNUSCCLH_0001_01_LibTube81_R00250S8A2M0000		KUNUSCCLH_0001_01_LibTube01_R00250S8A2M0000P0000_T1_KHWGSH_A00001	0.999821	1	0.999	0.9995
KUNUSCCLH_0001_01_LibTube81_R00250S8A2M0000	P0000_C1_KHWGSH_A00006	KUNUSCCLH_0001_01_LibTube11_R00250S8A2M0000P0000_T2_KHWGSH_A00002	0.999464	1	0.9969	0.9985
KUNUSCCLH 0001 01 LibTube81 R00250S8A2M0000	P0000 C1 KHWGSH A00006	KUNUSCCLH 0001 01 LibTube19 R00250S8A2M0000P0000 T3 KHWGSH A00003	0.999285	1	0.9959	0.9979
KUNUSCCLH 0001 01 LibTube81 R00250S8A2M0000				- 1		
		KUNUSCCLH_0001_01_LibTube70_R00250S8A2M0000P0000_T4_KHWGSH_A00004	0.999643	1	0.9979	0.999
KUNUSCCLH_0001_01_LibTube81_R00250S8A2M0000	P0000_C1_KHWGSH_A00006	KUNUSCCLH_0001_01_LibTube77_R00250S8A2M0000P0000_T5_KHWGSH_A00005	0.999464	1	0.9949	0.9949
KUNUSCCLH_0002_01_LibTube82_R00250S8A2M0000	POOOD C1 KHWGSH ADDO12	KUNUSCCLH_0002_01_LibTube12_R00250S8A2M0000P0000_T3_KHWGSH_A00009	0.999821	1	0.999	0.9995
KUNUSCCLH_0002_01_LibTube82_R00250S8A2M0000	P0000_C1_KHWGSH_A00012	KUNUSCCLH_0002_01_LibTube26_R00250S8A2M0000P0000_T4_KHWGSH_A00010	0.999107	1	0.9949	0.9949
KUNUSCCLH_0002_01_LibTube82_R00250S8A2M0000	P0000 C1 KHWGSH A00012	KUNUSCCLH 0002 01 LibTube2 R00250S8A2M0000P0000 T1 KHWGSH A00007	0.998749	1	0.9949	0.9949
KUNUSCCLH 0002 01 LibTube82 R00250S8A2M0000		KUNUSCCLH_0002_01_LibTube5_R00250S8A2M0000P0000_T2_KHWGSH_A00008	0.998928	1	0.9949	0.9949
				- 1		
KUNUSCCLH_0002_01_LibTube82_R00250S8A2M0000	P0000_C1_KHWGSH_A00012	KUNUSCCLH_0002_01_LibTube71_R00250S8A2M0000P0000_T5_KHWGSH_A00011	0.999107	1	0.9949	0.9949
KUNUSCCLH_0003_01_LibTube83_R00250S8A2M0000	P0000 C1 KHWGSH A00018	KUNUSCCLH_0003_01_LibTube13_R00250S8A2M0000P0000_T2_KHWGSH_A00014	0.999464	1	0.9969	0.9985
KUNUSCCLH 0003 01 LibTube83 R00250S8A2M0000		KUNUSCCLH 0003 01 LibTube20 R00250S8A2M0000P0000 T3 KHWGSH A00015		1	0.9959	0.9979
			0.999285	1		
KUNUSCCLH_0003_01_LibTube83_R00250S8A2M0000	P0000_C1_KHWGSH_A00018	KUNUSCCLH_0003_01_LibTube27_R00250S8A2M0000P0000_T4_KHWGSH_A00016	0.997855	1	0.9877	0.9938
KUNUSCCLH 0003 01 LibTube83 R00250S8A2M0000	P0000 C1 KHWGSH A00018	KUNUSCCLH 0003 01 LibTube28 R00250S8A2M0000P0000 T5 KHWGSH A00017	0.999642	1	0.9979	0.999
KUNUSCCLH 0003 01 LibTube83 R00250S8A2M0000				1	0.9969	0.9985
		KUNUSCCLH_0003_01_LibTube6_R00250S8A2M0000P0000_T1_KHWGSH_A00013	0.999464			
KUNUSCCLH_0004_01_LibTube84_R00250S8A2M0000	P0000_C1_KHWGSH_A00024	KUNUSCCLH_0004_01_LibTube07_R00250S8A2M0000P0000_T1_KHWGSH_A00019	0.999464	1	0.9969	0.9985
KUNUSCCLH_0004_01_LibTube84_R00250S8A2M0000	P0000 C1 KHWGSH A00024	KUNUSCCLH_0004_01_LibTube14_R00250S8A2M0000P0000_T2_KHWGSH_A00020	0.999285	1	0.9959	0.9979
				- 1		
KUNUSCCLH_0004_01_LibTube84_R00250S8A2M0000		KUNUSCCLH_0004_01_LibTube21_R00250S8A2M0000P0000_T3_KHWGSH_A00021	0.999285	1	0.9959	0.9979
KUNUSCCLH_0004_01_LibTube84_R00250S8A2M0000	P0000_C1_KHWGSH_A00024	KUNUSCCLH_0004_01_LibTube29_R00250S8A2M0000P0000_T4_KHWGSH_A00022	0.998927	1	0.9938	0.9969
KUNUSCCLH_0004_01_LibTube84_R00250S8A2M0000	POOOD C1 KHWGSH ADDO24	KUNUSCCLH_0004_01_LibTube72_R00250S8A2M0000P0000_T5_KHWGSH_A00023	0.999107	1	0.9949	0.9974
KUNUSCCLH_0005_01_LibTube85_R00250S8A2M0000		KUNUSCCLH_0005_01_LibTube08_R00250S8A2M0000P0000_T1_KHWGSH_A00025	0.99857	1	0.9918	0.9959
KUNUSCCLH_0005_01_LibTube85_R00250S8A2M0000	P0000_C1_KHWGSH_A00030	KUNUSCCLH_0005_01_LibTube15_R00250S8A2M0000P0000_T2_KHWGSH_A00026	0.999821	1	0.999	0.9995
KUNUSCCLH 0005 01 LibTube85 R00250S8A2M0000		KUNUSCCLH 0005 01 LibTube22 R00250S8A2M0000P0000 T3 KHWGSH A00027	0.999642	1	0.9979	0.999
				- 1		
KUNUSCCLH_0005_01_LibTube85_R00250S8A2M0000		KUNUSCCLH_0005_01_LibTube30_R00250S8A2M0000P0000_T4_KHWGSH_A00028	0.999464	1	0.9969	0.9985
KUNUSCCLH_0005_01_LibTube85_R00250S8A2M0000	P0000_C1_KHWGSH_A00030	KUNUSCCLH_0005_01_LibTube42_R00250S8A2M0000P0000_T5_KHWGSH_A00029	0.999285	1	0.9949	0.9949
KUNUSCCLH 0006 01 LibTube86 R00250S8A2M0000		KUNUSCCLH 0006 01 LibTube16 R00250S8A2M0000P0000 T1 KHWGSH A00031	0.999464	- 1	0.9969	0.9985
KUNUSCCLH_0006_01_LibTube86_R00250S8A2M0000	PUUUU_C1_KHWGSH_A00036	KUNUSCCLH_0006_01_LibTube23_R00250S8A2M0000P0000_T2_KHWGSH_A00032	0.998928	1	0.9949	0.9949
KUNUSCCLH_0006_01_LibTube86_R00250S8A2M0000	P0000 C1 KHWGSH A00036	KUNUSCCLH_0006_01_LibTube31_R00250S8A2M0000P0000_T3_KHWGSH_A00033	0.999107	1	0.9949	0.9949
KUNUSCCLH 0006 01 LibTube86 R00250S8A2M0000		KUNUSCCLH 0006 01 LibTube43 R00250S8A2M0000P0000 T4 KHWGSH A00034	0.999107	1	0.9949	0.9974
KUNUSCCLH_0006_01_LibTube86_R00250S8A2M0000	P0000_C1_KHWGSH_A00036	KUNUSCCLH_0006_01_LibTube78_R00250S8A2M0000P0000_T5_KHWGSH_A00035	0.999464	1	0.9969	0.9985
KUNUSCCLH 0007 01 LibTube87 R00250S8A2M0000	P0000 C1 KHWGSH A00042	KUNUSCCLH 0007 01 LibTube9 R00250S8A2M0000P0000 T1 KHWGSH A00037	0.999464	.1	0.9969	0.9985
				- 1		
KUNUSCCLH_0007_01_LibTube87_R00250S8A2M0000		KUNUSCCLH_0007_01_LibTube17_R00250S8A2M0000P0000_T2_KHWGSH_A00038	0.999285	1	0.9959	0.9979
KUNUSCCLH_0007_01_LibTube87_R00250S8A2M0000	P0000_C1_KHWGSH_A00042	KUNUSCCLH_0007_01_LibTube24_R00250S8A2M0000P0000_T3_KHWGSH_A00039	0.999107	1	0.9949	0.9949
KUNUSCCLH_0007_01_LibTube87_R00250S8A2M0000	P0000 C1 KHWGSH A00042	KUNUSCCLH_0007_01_LibTube32_R00250S8A2M0000P0000_T4_KHWGSH_A00040	0.999464	1	0.9969	0.9985
KUNUSCCLH_0007_01_LibTube87_R00250S8A2M0000		KUNUSCCLH_0007_01_LibTube55_R00250S8A2M0000P0000_T5_KHWGSH_A00041	0.99875	1	0.9928	0.9964
KUNUSCCLH 0008 01 LibTube88 R00250S8A2M0000	P0000 C1 KHWGSH A00048	KUNUSCCLH_0008_01_LibTube10_R00250S8A2M0000P0000_T1_KHWGSH_A00043	0.999106	1	0.9949	0.9974
KUNUSCCLH 0008 01 LibTube88 R00250S8A2M0000		KUNUSCCLH 0008 01 LibTube18 R00250S8A2M0000P0000 T2 KHWGSH A00044	0.998569	1	0.9948	0.9949
KUNUSCCLH_0008_01_LibTube88_R00250S8A2M0000	P0000_C1_KHWGSH_A00048	KUNUSCCLH_0008_01_LibTube25_R00250S8A2M0000P0000_T3_KHWGSH_A00045	0.998392	1	0.9899	0.9899
KUNUSCCLH 0008 01 LibTube88 R00250S8A2M0000	P0000 C1 KHWGSH A00048	KUNUSCCLH 0008 01 LibTube33 R00250S8A2M0000P0000 T4 KHWGSH A00046	0.998749	1	0.9949	0.9949
KUNUSCCLH 0008 01 LibTube88 R00250S8A2M0000		KUNUSCCLH_0008_01_LibTube62_R00250S8A2M0000P0000_T5_KHWGSH_A00047	0.998927	1	0.9938	0.9969
KUNUSCCLH_0009_01_LibTube89_R00250S8A2M0000	P0000_C1_KHWGSH_A00054	KUNUSCCLH_0009_01_LibTube34_R00250S8A2M0000P0000_T1_KHWGSH_A00049	0.999464	1	0.9969	0.9985
KUNUSCCLH_0009_01_LibTube89_R00250S8A2M0000	P0000 C1 KHWGSH A00054	KUNUSCCLH_0009_01_LibTube46_R00250S8A2M0000P0000_T2_KHWGSH_A00050	0.999643	1	0.9979	0.999
				1		
KUNUSCCLH_0009_01_LibTube89_R00250S8A2M0000		KUNUSCCLH_0009_01_LibTube56_R00250S8A2M0000P0000_T3_KHWGSH_A00051	0.999464	1	0.9969	0.9985
KUNUSCCLH_0009_01_LibTube89_R00250S8A2M0000	P0000_C1_KHWGSH_A00054	KUNUSCCLH_0009_01_LibTube63_R00250S8A2M0000P0000_T4_KHWGSH_A00052	0.998749	1	0.9899	0.9899
KUNUSCCLH_0009_01_LibTube89_R00250S8A2M0000	P0000 C1 KHWGSH A00054	KUNUSCCLH_0009_01_LibTube73_R00250S8A2M0000P0000_T5_KHWGSH_A00053	0.998212	1	0.9898	0.9898
			0.550212	-	0.5050	0.5050
KUNUSCCLH_0010_01_LibTube90_R00250S8A2M0000		KUNUSCCLH_0010_01_LibTube35_R00250S8A2M0000P0000_T1_KHWGSH_A00055	1	1	1	1
KUNUSCCLH_0010_01_LibTube90_R00250S8A2M0000	P0000_C1_KHWGSH_A00060	KUNUSCCLH_0010_01_LibTube47_R00250S8A2M0000P0000_T2_KHWGSH_A00056	0.998928	1	0.9949	0.9949
KUNUSCCLH 0010 01 LibTube90 R00250S8A2M0000	P0000 C1 KHWGSH A00060	KUNUSCCLH 0010 01 LibTube64 R00250S8A2M0000P0000 T3 KHWGSH A00057	0.999464	1	0.9969	0.9985
				-		
KUNUSCCLH_0010_01_LibTube90_R00250S8A2M0000		KUNUSCCLH_0010_01_LibTube79_R00250S8A2M0000P0000_T4_KHWGSH_A00058	0.999464	1	0.9969	0.9985
KUNUSCCLH_0010_01_LibTube90_R00250S8A2M0000	P0000_C1_KHWGSH_A00060	KUNUSCCLH_0010_01_LibTube80_R00250S8A2M0000P0000_T5_KHWGSH_A00059	0.999464	1	0.9969	0.9985
KUNUSCCLH_0011_01_LibTube91_R00250S8A2M0000		KUNUSCCLH 0011 01 LibTube36 R00250S8A2M0000P0000 T1 KHWGSH A00061	0.999464	1	0.9969	0.9985
				- 1		
KUNUSCCLH_0011_01_LibTube91_R00250S8A2M0000		KUNUSCCLH_0011_01_LibTube48_R00250S8A2M0000P0000_T2_KHWGSH_A00062	0.999464	1	0.9969	0.9985
KUNUSCCLH_0011_01_LibTube91_R00250S8A2M0000	P0000_C1_KHWGSH_A00066	KUNUSCCLH_0011_01_LibTube52_R00250S8A2M0000P0000_T3_KHWGSH_A00063	0.999821	1	0.999	0.9995
KUNUSCCLH 0011 01 LibTube91 R00250S8A2M0000		KUNUSCCLH 0011 01 LibTube57 R00250S8A2M0000P0000 T4 KHWGSH A00064	0.999285	1	0.9959	0.9979
				- 1		
KUNUSCCLH_0011_01_LibTube91_R00250S8A2M0000		KUNUSCCLH_0011_01_LibTube65_R00250S8A2M0000P0000_T5_KHWGSH_A00065	0.999821	1	0.999	0.9995
KUNUSCCLH_0012_01_LibTube92_R00250S8A2M0000	P0000_C1_KHWGSH_A00072	KUNUSCCLH_0012_01_LibTube37_R00250S8A2M0000P0000_T3_KHWGSH_A00069	0.999821	1	0.999	0.9995
KUNUSCCLH 0012 01 LibTube92 R00250S8A2M0000		KUNUSCCLH 0012 01 LibTube3 R00250S8A2M0000P0000 T1 KHWGSH A00067	0.999107	1	0.9949	0.9949
KUNUSCCLH_0012_01_LibTube92_R00250S8A2M0000		KUNUSCCLH_0012_01_LibTube49_R00250S8A2M0000P0000_T4_KHWGSH_A00070	0.998392	1	0.9938	0.9943
KUNUSCCLH_0012_01_LibTube92_R00250S8A2M0000	P0000_C1_KHWGSH_A00072	KUNUSCCLH_0012_01_LibTube53_R00250S8A2M0000P0000_T5_KHWGSH_A00071	0.998571	1	0.9899	0.9899
KUNUSCCLH_0012_01_LibTube92_R00250S8A2M0000		KUNUSCCLH_0012_01_LibTube98_R00250S8A2M0000P0000_T6_KHWGSH_A00097	0.998214	.1	0.9897	0.9949
		KUNUSCCLH 0012 01 LibTube99 R00250S8A2M0000P0000 T7 KHWGSH A00098	0.998392	- 1		0.9943
KUNUSCCLH_0012_01_LibTube92_R00250S8A2M0000				1	0.9938	
KUNUSCCLH_0013_01_LibTube93_R00250S8A2M0000	P0000_C1_KHWGSH_A00078	KUNUSCCLH_0013_01_LibTube38_R00250S8A2M0000P0000_T1_KHWGSH_A00073	0.999464	1	0.9969	0.9985
KUNUSCCLH 0013 01 LibTube93 R00250S8A2M0000	P0000 C1 KHWGSH A00078	KUNUSCCLH_0013_01_LibTube50_R00250S8A2M0000P0000_T2_KHWGSH_A00074	0.999464	1	0.9969	0.9985
KUNUSCCLH_0013_01_LibTube93_R00250S8A2M0000		KUNUSCCLH_0013_01_LibTube58_R00250S8A2M0000P0000_T3_KHWGSH_A00075	0.998749		0.9928	0.9964
KUNUSCCLH_0013_01_LibTube93_R00250S8A2M0000	P0000_C1_KHWGSH_A00078	KUNUSCCLH_0013_01_LibTube66_R00250S8A2M0000P0000_T4_KHWGSH_A00076	0.999107	1	0.9949	0.9974
KUNUSCCLH 0013 01 LibTube93 R00250S8A2M0000		KUNUSCCLH 0013 01 LibTube74 R00250S8A2M0000P0000 T5 KHWGSH A00077	0.998928		0.9938	0.9969
KUNUSCCLH_0014_01_LibTube94_R00250S8A2M0000		KUNUSCCLH_0014_01_LibTube39_R00250S8A2M0000P0000_T1_KHWGSH_A00079	0.998928	1	0.9938	0.9969
KUNUSCCLH_0014_01_LibTube94_R00250S8A2M0000	P0000_C1_KHWGSH_A00084	KUNUSCCLH_0014_01_LibTube51_R00250S8A2M0000P0000_T2_KHWGSH_A00080	0.999464	1	0.9969	0.9985
KUNUSCCLH 0014 01 LibTube94 R00250S8A2M0000		KUNUSCCLH 0014 01 LibTube54 R00250S8A2M0000P0000 T3 KHWGSH A00081	0.999464	1	0.9969	0.9985
KUNUSCCLH_0014_01_LibTube94_R00250S8A2M0000		KUNUSCCLH_0014_01_LibTube59_R00250S8A2M0000P0000_T4_KHWGSH_A00082	0.999464	1	0.9969	0.9985
KUNUSCCLH_0014_01_LibTube94_R00250S8A2M0000	P0000_C1_KHWGSH_A00084	KUNUSCCLH_0014_01_LibTube67_R00250S8A2M0000P0000_T5_KHWGSH_A00083	0.999464	1	0.9969	0.9985
KUNUSCCLH 0015 01 LibTube95 R00250S8A2M0000		KUNUSCCLH 0015 01 LibTube40 R00250S8A2M0000P0000 T1 KHWGSH A00085	0.998928	1	0.9938	0.9969
KUNUSCCLH_0015_01_LibTube95_R00250S8A2M0000		KUNUSCCLH_0015_01_LibTube44_R00250S8A2M0000P0000_T2_KHWGSH_A00086	0.998749	1	0.9928	0.9964
KUNUSCCLH_0015_01_LibTube95_R00250S8A2M0000	P0000_C1_KHWGSH_A00090	KUNUSCCLH_0015_01_LibTube60_R00250S8A2M0000P0000_T3_KHWGSH_A00087	0.999107	1	0.9949	0.9974
KUNUSCCLH 0015 01 LibTube95 R00250S8A2M0000		KUNUSCCLH 0015 01 LibTube68 R00250S8A2M0000P0000 T4 KHWGSH A00088	0.998928	1	0.9949	0.9949
KUNUSCCLH_0015_01_LibTube95_R00250S8A2M0000	PUUUU_C1_KHWGSH_A00090	KUNUSCCLH_0015_01_LibTube75_R00250S8A2M0000P0000_T5_KHWGSH_A00089	0.998571	1	0.9948	0.9949
KUNUSCCLH_0016_01_LibTube96_R00250S8A2M0000	P0000 C1 KHWGSH A00096	KUNUSCCLH 0016 01 LibTube41 R00250S8A2M0000P0000 T1 KHWGSH A00091	0.999464	1	0.9969	0.9985
KUNUSCCLH 0016 01 LibTube96 R00250S8A2M0000		KUNUSCCLH 0016 01 LibTube45 R00250S8A2M0000P0000 T2 KHWGSH A00092	0.999643	1	0.9979	0.999
KUNUSCCLH_0016_01_LibTube96_R00250S8A2M0000	PUUUU_C1_KHWGSH_A00096	KUNUSCCLH_0016_01_LibTube61_R00250S8A2M0000P0000_T3_KHWGSH_A00093	0.999643	1	0.9979	0.999
KUNUSCCLH_0016_01_LibTube96_R00250S8A2M0000	P0000 C1 KHWGSH A00096	KUNUSCCLH_0016_01_LibTube69_R00250S8A2M0000P0000_T4_KHWGSH_A00094	0.999821	1	0.999	0.9995
KUNUSCCLH 0016 01 LibTube96 R00250S8A2M0000				- 1		
KONOSCCEH_0010_01_FIB10D630_K0052028A3M0000	PUUUU_C1_KHWG5H_AUUU9b	KUNUSCCLH_0016_01_LibTube76_R00250S8A2M0000P0000_T5_KHWGSH_A00095	0.999821	1	0.999	0.9995

Table S3 SNPsniffer analysis to calcualte genotype concordnace between crypt vs bulk.

KUNUSCCLH_0001_01_LibTube81_R00250S8A2M0000P0000_C1_KHWGSH_A00006 KUNUSCCLH_0001_01_LibTube01_R00250S8A2M0000P0000_T1_KHWGSH_A00001 KUNUSCCLH_0001_01_LibTube81_R00250S8A2M0000P0000_C1_KHWGSH_A00006 KUNUSCCLH_0001_01_LibTube11_R00250S8A2M0000P0000_T2_KHWGSH_A00002 KUNUSCCLH_0001_01_LibTube81_R00250S8A2M0000P0000_C1_KHWGSH_A00006 KUNUSCCLH_0001_01_LibTube19_R00250S8A2M0000P0000_T3_KHWGSH_A00003		_Calls	Ratio
KUNUSCCLH_0001_01_LibTube81_R00250S8A2M0000P0000_C1_KHWGSH_A00006	297	297	1
	297	297	1
	297	297	1
KUNUSCCLH_0001_01_LibTube81_R00250S8A2M0000P0000_C1_KHWGSH_A00006	297	297	1
KUNUSCCIH_0001_01_LibTube81_R00250S8A2M0000P0000_C1_KHWGSH_A00006	297	297	1
KUNUSCCIH 0002 01 LibTube82 R00250S8A2M0000P0000 C1 KHWGSH A00012 KUNUSCCIH 0002 01 LibTube12 R00250S8A2M0000P0000 T3 KHWGSH A00009	276	275	0.996
KUNUSCCLH_0002_01_LibTube82_R00250S8A2M0000P0000_C1_KHWGSH_A00012	276 276	276 276	1
KUNUSCCH 0002 01 LibTube82 R00250S8A2M00000P0000 C1 KHWGSH A00012 KUNUSCCH 0002 01 LibTube8 R00250S8A2M0000P0000 T2 KHWGSH A00012	275	275	1
KUNUSCCIH 0002 01 Libītube82 R00250S8A2M0000P0000 C1 KHWGSH A00012 KUNUSCCIH 0002 01 Libītube71 R00250S8A2M0000P0000 T5 KHWGSH A00011	276	276	1
KUNUSCCLH 0003 01 LibTube83 R00250S8A2M0000P0000 C1 KHWGSH A00018 KUNUSCCLH 0003 01 LibTube13 R00250S8A2M0000P0000 T2 KHWGSH A00014	283	280	0.989
KUNUSCCLH 0003 01 LibTube83 R00250S8A2M0000P0000 C1 KHWGSH A00018 KUNUSCCLH 0003 01 LibTube20 R00250S8A2M0000P0000 T3 KHWGSH A00015	283	283	1
KUNUSCCLH 0003 01 LibTube83 R00250S8A2M0000P0000 C1 KHWGSH A00018 KUNUSCCLH 0003 01 LibTube27 R00250S8A2M0000P0000 T4 KHWGSH A00016	283	283	1
KUNUSCCLH_0003_01_LibTube83_R00250S8A2M0000P0000_C1_KHWGSH_A00018	283	283	1
KUNUSCCLH_0003_01_LibTube83_R00250S8A2M0000P0000_C1_KHWGSH_A00018	283	282	0.996
KUNUSCCLH_0004_01_LibTube84_R00250S8A2M0000P0000_C1_KHWGSH_A00024	282	282	1
KUNUSCCLH_0004_01_LibTube84_R00250S8A2M0000P0000_C1_KHWGSH_A00024	282	282	1
KUNUSCCLH_0004_01_LibTube84_R00250S8A2M0000P0000_C1_KHWGSH_A00024	282	282	1
KUNUSCCLH_0004_01_LibTube84_R00250S8A2M0000P0000_C1_KHWGSH_A00024	282	282	1
KUNUSCCLH_0004_01_LibTube84_R00250S8A2M0000P0000_C1_KHWGSH_A00024	282	282	1
KUNUSCCLH_0005_01_LibTube85_R00250S8A2M0000P0000_C1_KHWGSH_A00030	291 291	291 291	1
KUNUSCCLH_0005_01_LIDTUDE85_R00250S8A2M0000P0000_C1_KHWGSH_A00030	291	291	1
KUNUSCCLH 0005_01_LIDTUBE85_R0025058A2M0000P0000_C1_KHWGSH_A00030	291	291	1
KUNUSCCIH 0005 01 1010tube85 R0022598A2M0000P0000 C1 KHWGSH A00030 KUNUSCCIH 0005 01 1010tube87 R0025058A2M0000P0000 C1 KHWGSH A00030 KUNUSCCIH 0005 01 1010tube87 R0025058A2M0000P0000 T5 KHWGSH A00030 KUNUSCCIH 0005 01 1010tube87 R0025058A2M0000P0000 T6 KHWGSH A00030 KUNUSCCIH 0005 01 1010tube87 R0025058A2M0000P000 T6 KHWGSH A00030 KUNUSCCIH 0005 01 1010tube87 R0005	291	291	1
KUNUSCCIH 0006 01 LibTube86 R00250S8A2M0000P0000 C1 KHWGSH A00036 KUNUSCCIH 0006 01 LibTube16 R00250S8A2M0000P0000 T1 KHWGSH A00031	285	285	1
KUNUSCCIH 0006 01 LibTube86 R00250S8A2M0000P0000 C1 KHWGSH A00036 KUNUSCCIH 0006 01 LibTube23 R00250S8A2M0000P0000 72 KHWGSH A00032	285	285	1
KUNUSCCLH_0006_01_LibTube86_R00250S8A2M0000P0000_C1_KHWGSH_A00036	285	285	1
KUNUSCCLH_0006_01_LibTube86_R00250S8A2M0000P0000_C1_KHWGSH_A00036	285	285	1
KUNUSCCLH_0006_01_LibTube86_R00250S8A2M0000P0000_C1_KHWGSH_A00036 KUNUSCCLH_0006_01_LibTube78_R00250S8A2M0000P0000_T5_KHWGSH_A00035	285	285	1
KUNUSCCLH_0007_01_LibTube87_R00250S8A2M0000P0000_C1_KHWGSH_A00042 KUNUSCCLH_0007_01_LibTube17_R00250S8A2M0000P0000_T2_KHWGSH_A00038	287	286	0.996
KUNUSCCLH_0007_01_LibTube87_R00250S8A2M0000P0000_C1_KHWGSH_A00042	287	287	1
KUNUSCCLH_0007_01_LibTube87_R00250S8A2M0000P0000_C1_KHWGSH_A00042	287	287	1
KUNUSCCLH_0007_01_LibTube87_R00250S8A2M0000P0000_C1_KHWGSH_A00042	287 287	287	1
	288	287 288	1
KUNUSCCLH_0008_01_LibTube88_R00250S8A2M0000P0000_C1_KHWGSH_A00048	288	288	1
KUNUSCCLH 0008 01 LibTube88 R0025058AZM0000P0000 C1 KHWGSH A00048 KUNUSCCLH 0008 01 LibTube25 R0025058AZM0000P0000 T3 KHWGSH A00048 KUNUSCCLH 0008 01 LibTube25 R0025058AZM0000P0000 T3 KHWGSH A00048	288	288	1
KUNUSCCLH 0008 01 LibTube88 R00250S8A2M0000P0000 C1 KHWGSH A00048 KUNUSCCLH 0008 01 LibTube33 R00250S8A2M0000P0000 T4 KHWGSH A00046	288	288	1
KUNUSCCLH 0008 01 LibTube88 R00250S8A2M0000P0000 C1 KHWGSH A00048 KUNUSCCLH 0008 01 LibTube62 R00250S8A2M0000P0000 T5 KHWGSH A00047	288	288	1
KUNUSCCLH_0009_01_LibTube89_R00250S8A2M0000P0000_C1_KHWGSH_A00054	292	292	1
KUNUSCCLH_0009_01_LibTube89_R00250S8A2M0000P0000_C1_KHWGSH_A00054	292	292	1
KUNUSCCLH_0009_01_LibTube89_R00250S8A2M0000P0000_C1_KHWGSH_A00054	291	291	1
KUNUSCCLH_0009_01_LibTube89_R00250S8A2M0000P0000_C1_KHWGSH_A00054 KUNUSCCLH_0009_01_LibTube63_R00250S8A2M0000P0000_T4_KHWGSH_A00052	292	292	1
KUNUSCCLH_0009_01_LibTube89_R00250S8A2M0000P0000_C1_KHWGSH_A00054	292	292	1
KUNUSCCLH_0010_01_LibTube90_R00250S8A2M0000P0000_C1_KHWGSH_A00060 KUNUSCCLH_0010_01_LibTube35_R00250S8A2M0000P0000_T1_KHWGSH_A00055	262	262	1
KUNUSCCLH_0010_01_LibTube90_R00250S8A2M0000P0000_C1_KHWGSH_A00060	262	262	1
KUNUSCCLH_0010_01_LibTube90_R00250S8A2M0000P0000_C1_KHWGSH_A00060	262 262	262 262	1
KUNUSCCIH 0010 01 Libitube90 R00250S8AZM0000P0000 CI KHWGSH A00060 KUNUSCCIH 0010 01 Libitube90 R00250S8AZM0000P0000 TS KHWGSH A00060 KUNUSCCIH 0010 01 Libitube90 R00250S8AZM0000P0000 TS KHWGSH A00060 KUNUSCCIH 0010 01 Libitube90 R00250S8AZM0000P0000 TS KHWGSH A00059 KUNUSCCIH 0010 01 Libitube90 R00250S8AZM0000P0000 CI KHWGSH A00059 KUNUSCCIH 0010 01 Libitube90 R00250S8AZM0000P0000 TS KHWGSH A00059 KUNUSCCIH 0010 01 Libitube90 R00250S8AZM0000P0000 CI KHWGSH A00059 KUNUSCCIH 0010 01 Libitube90 R00250S8AZM0000P0000 TS KHWGSH A00059 KUNUSCCIH 0010 01 Libitube90 R00250S8AZM0000P000 TS KHWGSH A00059 KUNUSCCIH 0010 01 Libitube90 R00250S8AZM000P000 TS KHWGSH A00059 KUNUSCCIH 0010 01 Libitube90 R00250S8AZM000P000 TS KHWGSH	262	262	1
KUNUSCCH 0011 01 LibTube91 R00250S8A2M0000P0000 C1 KHWGSH A00066 KUNUSCCH 0011 01 LibTube96 R00250S8A2M0000P0000 T1 KHWGSH A00061	267	266	0.996
KUNUSCCH 0011 01 LibTube91 R00250S8A2M0000P0000 C1 KHWGSH A00066 KUNUSCCH 0011 01 LibTube48 R00250S8A2M0000P0000 T2 KHWGSH A00062	267	267	1
KUNUSCCLH 0011 01 LibTube91 R00250S8A2M0000P0000 C1 KHWGSH A00066 KUNUSCCLH 0011 01 LibTube52 R00250S8A2M0000P0000 73 KHWGSH A00063	267	267	1
KUNUSCCLH_0011_01_LibTube91_R00250S8A2M0000P0000_C1_KHWGSH_A00066	267	267	1
KUNUSCCLH_0011_01_LibTube91_R00250S8A2M0000P0000_C1_KHWGSH_A00066 KUNUSCCLH_0011_01_LibTube65_R00250S8A2M0000P0000_T5_KHWGSH_A00065	267	267	1
KUNUSCCLH_0012_01_LibTube92_R00250S8A2M0000P0000_C1_KHWGSH_A00072	275	275	1
KUNUSCCLH_0012_01_LibTube92_R00250S8A2M0000P0000_C1_KHWGSH_A00072 KUNUSCCLH_0012_01_LibTube37_R00250S8A2M0000P0000_T3_KHWGSH_A00069	275	275	1
KUNUSCCLH_0012_01_LibTube92_R00250S8A2M0000P0000_C1_KHWGSH_A00072	275	275	1
KUNUSCCIH 0012 01 LibTube92 R00250S8A2M0000P0000 C1 KHWGSH A00072 KUNUSCCIH 0012 01 LibTube53 R00250S8A2M0000P0000 T5 KHWGSH A00071	275	275	1
KUNUSCCLH 0012 01 LibTube92 R00250S8A2M0000P0000 C1 KHWGSH A00072 KUNUSCCLH 0012 01 LibTube98 R00250S8A2M0000P0000 T6 KHWGSH A00097 KUNUSCCLH 0012 01 LibTube99 R00250S8A2M0000P0000 T7 KHWGSH A00098	275	275 275	1
KUNUSCCLH_0012_01_LibTube92_R00250S8A2M0000P0000_C1_KHWGSH_A00072	275		1
KUNUSCCLH_0013_01_LIbTube93_R00250S8A2M0000P0000_C1_KHWGSH_A00078	273 273	273 273	1
KUNUSCCLH 0013_01_LIbTube93_R00250S8A2M0000P0000_C1_KHWGSH_A00078	273	273	1
KUNUSCCH 0013 01 Libitube93 R00250S8AZM0000P0000 C1 KHWGSH A00078 KUNUSCCH 0013 01 Libitube96 R00250S8AZM0000P0000 13 KHWGSH A00078 KUNUSCCH 0013 01 Libitube96 R00250S8AZM0000P0000 14 KHWGSH A00078 KUNUSCCH 0013 01 Libitube96 R00250S8AZM0000P0000 17 KHWGSH A00078 KUNUSCCH 0013 01 Libitube97 R00250S8AZM0000P0000 17 KHWGSH A00078 KUNUSCCH 0013 01 Libitube97 R00250S8AZM0000P0000 17 KHWGSH A00078 KUNUSCCH 0013 01 Libitube98 R00250S8AZM000P0000 17 KHWGSH A00078 KUNUSCCH 0013 01 Libitube98 R00250S8AZM000P000 17 KHWGSH A00078 KUNUSCH 0013 01 Libitube9	273	273	1
KUNUSCCLH 0013 01 LibTube93 R0025058A2M0000P0000 C1 KHWGSH A00078 KUNUSCCLH 0013 01 LibTube74 R0025058A2M0000P0000 T5 KHWGSH A00077	273	273	1
KUNUSCCLH_0014_01_LibTube94_R00250S8A2M0000P0000_C1_KHWGSH_A00084	282	282	1
KUNUSCCLH 0014 01 LibTube94 R00250S8A2M0000P0000 C1 KHWGSH A00084 KUNUSCCLH 0014 01 LibTube51 R00250S8A2M0000P0000 T2 KHWGSH A00080	282	282	1
KUNUSCCLH_0014_01_LibTube94_R00250S8A2M0000P0000_C1_KHWGSH_A00084	282	282	1
KUNUSCCLH_0014_01_LibTube94_R00250S8A2M0000P0000_C1_KHWGSH_A00084	282	282	1
KUNUSCCLH_0014_01_LibTube94_R00250S8A2M0000P0000_C1_KHWGSH_A00084	282	282	1
KUNUSCCIH 0015 01 LibTube95 R00250S8A2M0000P0000 C1 KHWGSH A00090 KUNUSCCIH 0015 01 LibTube40 R00250S8A2M0000P0000 T1 KHWGSH A00085	270	270	1 0 000
KUNUSCCIH 0015 01 LibTube95 R00250S8A2M0000P0000 C1 KHWGSH A00009 KUNUSCCIH 0015 01 LibTube44 R00250S8A2M0000P0000 72 KHWGSH A00086 KUNUSCCIH 0015 01 LibTube44 R00250S8A2M0000P0000 72 KHWGSH A00086 KUNUSCCIH 0015 01 LibTube48 R00250S8A2M000P0000 72 KHWGSH A00086 KHWGSH A0008 KHWGSH A0008 KHWGSH A00086 KHWGSH A0008 KHWGSH A0008 KHWGSH	270	268	0.992
KUNUSCCLH_0015_01_LibTube95_R00250S8A2M0000P0000_C1_KHWGSH_A00090	270 270	270 270	1
KUNUSCCLH 0015 01 LibTube95 R00250S8A2M0000P0000 C1 KHWGSH A00090 KUNUSCCLH 0015 01 LibTube68 R00250S8A2M0000P0000 14 KHWGSH A00088 KUNUSCCLH 0015 01 LibTube75 R00250S8A2M0000P0000 T5 KHWGSH A00089	270	270	1
KUNUSCCLH 0016 01 LibTube96 R00250S8A2M0000P0000 C1 KHWGSH A00096 KUNUSCCLH 0016 01 LibTube41 R00250S8A2M0000P0000 T1 KHWGSH A00091	270	276	0.996
KUNUSCCIH 0016 01 UI UIUTUBEN KOUZSSARZIMOUOOPOOO CI KHWGSH A00096 KUNUSCCIH 0016 01 UIUTUBEN KOUZSSARZIMOUOOPOOO TZ KHWGSH A00096 KUNUSCCIH 0016 01 UIUTUBEN KOUZSSARZIMOUOOPOOO TZ KHWGSH A00092 KUNUSCCIH 0016 01 UIUTUBEN KOUZSSARZIMOUOOPOOO TZ KHWGSH A00092 KUNUSCCIH 0016 01 UIUTUBEN KOUZSSARZIMOUOOPOOO TZ KHWGSH A00092	277	276	0.996
KUNUSCCIH 0016 01 LibTube96 R00250S8A2M0000P0000 C1 KHWGSH A00096 KUNUSCCIH 0016 01 LibTube61 R00250S8A2M0000P0000 T3 KHWGSH A00093	277	276	0.996
KUNUSCCLH_0016_01_LibTube96_R0025058A2M0000P0000_C1_KHWGSH_A00096_ KUNUSCCLH_0016_01_LibTube69_R0025058A2M0000P0000_T4_KHWGSH_A00094_	276	275	0.996
KUNUSCCLH 0016 01 LibTube96 R00250S8A2M0000P0000 C1 KHWGSH A00096 KUNUSCCLH 0016 01 LibTube76 R00250S8A2M0000P0000 T5 KHWGSH A00095	277	275	0.992

Table S4 Population-based principal component analysis of crypt vs bulk.

REMUNISCELLO DOGI DI LIGHARDERI ROGIZIOSSA ANDRODORO TI E NEWISSA ADDRODORO TI SENSO ANDRODORO TI SENSO ANDR	SampleID	Sample Type	PC1	PC2	PC3
ENNISCEDEN DOIS DISTANCE RECOGNISSIA AND PROPRIOTION S. SENSOS 10.57446 7.47125 ENNISCED DOIS DISTANCE RECOGNISSIA AND PROPRIOTION S. SENSOS 10.57460 7.47125 ENNISCED DOIS S. SENSOS 10.57560 7.4725 ENNISCED DOIS S. SENSOS 10.57560 7.4725 ENNISCED DOIS S. SENSOS 10.57560 7.7226 ENNISCED DOIS S. SENSOS 10.5757 7.7226 ENNISCED DOIS S. SENSOS S. SENSOS 10.5757 7.7226 ENNISCED DOIS S. SENSOS S.		Crypt			
GENERAL DOOR DETAILED ROOTS STANDARD PROPERTY DETAILED ROOTS DETAI					
EMUNISCEEL 0003 01 LINTHURS RODOSSAAMMORDOWOOD T1 EMMOSH A00000	KUNUSCCLH_0001_01_LibTube70_R00250S8A2M0000P0000_T4_KHWGSH_A00004				
## CHRUSCECTH 2002 (1 Libritaries #2003508A1M00009000 T; 8MWSSI M00009 Cypt 54.22193 1354078 3.53106 (1 MUSCECH 2002 C) Libritaries #2003508A1M00009000 T; 8MWSSI M00007 Cypt 34.22103 1354078 3.53106 (1 MUSCECH 2002 C) Libritaries #2003508A1M00009000 T; 8MWSSI M00007 Cypt 34.22103 1354078 3.53106 (1 MUSCECH 2002 C) Libritaries #2003508A1M00009000 T; 8MWSSI M00007 Cypt 34.22103 1354078 3.53106 (1 MUSCECH 2002 C) Libritaries #2003508A1M00009000 T; 8MWSSI M00015 Cypt 45.2010 1354078 3.53106 (1 MUSCECH 2002 C) Libritaries #2003508A1M00009000 T; 8MWSSI M00015 Cypt 45.9009 13.22109 11.53408 3.53106 (1 MUSCECH 2002 C) Libritaries #2003508A1M00009000 T; 8MWSSI M00015 Cypt 45.9009 13.22109 11.77024 (1 MUSCECH 2002 C) Libritaries #2003508A1M00009000 T; 8MWSSI M00015 Cypt 45.9009 13.22109 11.77024 (1 MUSCECH 2002 C) Libritaries #2003508A1M00009000 T; 8MWSSI M00015 Cypt 45.9009 13.22109 11.77024 (1 MUSCECH 2002 C) Libritaries #2003508A1M00009000 T; 8MWSSI M00017 Cypt 45.9009 13.22109 11.77024 (1 MUSCECH 2002 C) Libritaries #2003508A1M00009000 T; 8MWSSI M00017 Cypt 45.9009 13.22109 11.77024 (1 MUSCECH 2002 C) Libritaries #2003508A1M00009000 T; 8MWSSI M00017 Cypt 45.9009 13.22109 11.77024 (1 MUSCECH 2002 C) Libritaries #2003508A1M00009000 T; 8MWSSI M00017 Cypt 45.9009 3.22109 11.77024 (1 MUSCECH 2002 C) Libritaries #2003508A1M00009000 T; 8MWSSI M00017 Cypt 45.9009 3.22109 11.77024 (1 MUSCECH 2002 C) Libritaries #2003508A1M00009000 T; 8MWSSI M00017 Cypt 45.9009 3.22109 11.77024 (1 MUSCECH 2002 C) Libritaries #2003508A1M00009000 T; 8MWSSI M00017 Cypt 45.9009 3.23210 3.20000 (1 MUSCECH 2002 C) Libritaries #2003508A1M00009000 T; 8MWSSI M00017 Cypt 45.9109 3.23210 3.20000 (1 MUSCECH 2002 C) Libritaries #2003508A1M00009000 T; 8MWSSI M00017 Cypt 45.9109 3.23210 3.20000 (1 Libritaries #2003508A1M00009000 T; 8MWSSI M00017 Cypt 45.9109 3.20000 (1 Libritaries #2003508A1M00009000 T; 8MWSSI M00017 Cypt 45.9109 3.20000 (1 Libritaries #2003508A1M00009000 T; 8MWSSI M00000 Cypt 45.9109 3.33500 (1 MUSCECH 2002 C) Libritaries #2003508A1M0000900					
EMMUSICALI (1902 20] Libribuse (1902) EMMOSIA ADDIOS Copt 54,21512 18,7524 3,23561 AUNISCIALI (1902) Libribuse (1902) EMMOSIA ADDIOS Copt 54,21512 18,7524 3,23561 AUNISCIALI (1902) Libribuse (1902) EMMOSIA ADDIOS Copt 54,2057 18,2524 3,23561 AUNISCIALI (1902) Libribuse (1902) EMMOSIA ADDIOS EMMO					
EMANUSCICI, 1002 Librius R. 1002508APM00000000 T. 6MWGSH A00001 Copt. 54-32189 18-3246 3-32310 Control Copt. 1001607 100		Crypt			
EMMUSICAL MOST LIPICHARY RODUSSIAN MODOROGO C. PMWSSH A00011 C.					
EMAINSCICH 0003 DI LIPINAPE R002508APM00000000 T. PHWSSH A00016 Crypt 64-59050 18.18941 11.37284 EMAINSCICH 0003 DI LIPINAPE R002508APM00000000 T. PHWSSH A00016 Crypt 64-59050 18.18942 11.37284 11.3728	KUNUSCCLH_0002_01_LibTube71_R00250S8A2M0000P0000_T5_KHWGSH_A00011				
EMAILSCICEL 0003 DI LIPITAZE 000256842/M00009000 T3 EMINES 04.00015					
EURISCICL 0003 OI LIPINES R0025083APA00000000 T, EMMSH A00013					
RINNISCELL 9003, OL LUTINESS RODSOSSAZ/MODOPRODO T1, RAMYSSH ADDOIS 8, PURE 64, 92316 1, 918, 936, 113, 937, 938, 938, 938, 938, 938, 938, 938, 938					
ENNISCICH 0035 01 LINTHEES REGISSIOSAN/MOODPROOD 11 RMYSH A00025					
EININISCICH QOID UITHURER R00250SBAM0000P0000 T3 eMYSH A00021			-64.92490		-11.32142
RINNISCELL 0004 02, LUTUNEZ, BRODZOSSARAMOROPRODO T3 ENWISH ADDOZ					
EMNISCICH 0004_01_Librius-28_800250SA2M0000P0000_TS_6MWSS_H_00022_					
RINNISCCH 0005, 01 LINTIGUES REGISSSA2M0000P0000 T1 RAMYSH A00025		Crypt			
INNISCICH 0005 01. LIDTUDES RODZISSBAZMO000P0000 T3. HWNGSH A00025 Crypt. 63.125105 119.68724 (a) 10.70597 INNISCICH 0005 01. LIDTUDES RODZISSBAZMO000P0000 T3. HWNGSH A00025 Crypt. 63.48476 120.04614 (a) 10.70597 INNISCICH 0005 01. LIDTUDES RODZISSBAZMO000P0000 T3. HWNGSH A00025 Crypt. 63.48276 (a) 10.70497 INNISCICH 0005 01. LIDTUDES RODZISSBAZMO000P0000 T3. HWNGSH A00032 Crypt. 63.52114 (a) 20.0273 INNISCICH 0005 01. LIDTUDES RODZISSBAZMO000P0000 T3. HWNGSH A00032 Crypt. 63.52114 (a) 20.0273 INNISCICH 0005 01. LIDTUDES RODZISSBAZMO000P000 T3. HWNGSH A00032 Crypt. 59.34862 (a) 20.45988 (a) 5.88200 INNISCICH 0005 01. LIDTUDES RODZISSBAZMO000P000 T3. HWNGSH A00032 Crypt. 59.34862 (a) 20.45988 (a) 5.88200 INNISCICH 0005 01. LIDTUDES RODZISSBAZMO000P000 T3. HWNGSH A00032 Crypt. 59.43862 (a) 20.45883 (a					
EMNUSCICH 0005 01 Lifthe 28, 800250582AM0000P0000 13, HWKSH A00023 Crypt 63,5214 20,06273 10,77425 EMNUSCICH 0005 01 Lifthe 12,800250582AM0000P0000 15, HWKSH A00023 Crypt 63,5214 20,06273 10,77425 EMNUSCICH 0005 01 Lifthe 15,800250582AM0000P0000 15, HWKSH A00023 Crypt 59,8462 20,45983 6,98820 EMNUSCICH 0005 01 Lifthe 15,800250582AM0000P0000 12, HWKSH A00032 Crypt 59,8462 20,45983 6,98820 EMNUSCICH 0005 01 Lifthe 15,800250582AM0000P0000 12, HWKSH A00032 Crypt 59,8462 20,45983 6,98820 EMNUSCICH 0005 01 Lifthe 15,800250582AM0000P0000 14, HWKSH A00032 Crypt 59,8462 20,49883 6,98820 EMNUSCICH 0005 01 Lifthe 15,800250582AM0000P0000 14, HWKSH A00034 Crypt 59,8462 20,49883 7,07232 EMNUSCICH 0005 01 Lifthe 15,800250582AM0000P0000 14, HWKSH A00035 Crypt 59,84629 20,49883 7,01636 EMNUSCICH 0005 01 Lifthe 15,800250582AM0000P0000 14, HWKSH A00035 Crypt 59,84629 20,49883 7,01636 EMNUSCICH 0005 01 Lifthe 15,800250582AM0000P0000 14, HWKSH A00036 Crypt 59,84629 20,49883 7,01636 EMNUSCICH 0005 01 Lifthe 15,800250582AM0000P0000 13, HWKSH A00036 Crypt 59,15609 22,25386 3,33855 EMNUSCICH 0007 01 Lifthe 15,800250582AM0000P0000 13, HWKSH A00036 Crypt 53,15699 22,23386 3,33855 EMNUSCICH 0007 01 Lifthe 15,800250582AM0000P0000 13, HWKSH A00036 Crypt 53,15703 23,2564 3,33856 EMNUSCICH 0007 01 Lifthe 15,800250582AM0000P0000 13, HWKSH A00036 Crypt 53,800250 13,93850 EMNUSCICH 0007 01 Lifthe 15,800250582AM0000P0000 15,4002540 EMWIST A00036 Crypt 58,60250 13,93889 59,9650 EMNUSCICH 0005 01 Lifthe 15,800250582AM0000P0000 15,4002540 A00036 Crypt 58,60250 13,93889 59,9650 EMNUSCICH 0005 01 Lifthe 15,800250582AM0000P0000 15,4002540 A00036 Crypt 58,500250 13,93889 59,9650 EMNUS		_			
KINNISCICH 0005 01. LIDTUM-87 R00250582/M0000P0000 T1 RHWGSH A00039 Crypt					
KUNISCICH 0005 01, LIPTUM-BR S0025058A2M0000P0000 T1 6HWGSH A00030 But 6-384004 20.07181 - 0.72325 KUNISCICH 0006 01, LIPTUM-BR S0025058A2M0000P0000 T1 6HWGSH A00031 Cryst					
INJUSCICH 0005 01 LITHURES R00250582/M0000P0000 T3 RNWSSH A00032 Cypt. 59,8464 20,45828 5-0,8820 INJUSCICH 0005 01 LITHURES R00250582/M0000P0000 T3 RNWSSH A00033 Cypt. 59,4867 20,48823 7-,070232 INJUSCICH 0005 01 LITHURES R00250582/M0000P0000 T3 RNWSSH A00034 Cypt. 59,4867 20,48823 7-,070232 INJUSCICH 0005 01 LITHURES R00250582/M0000P0000 T3 RNWSSH A00035 Cypt. 59,3875 20,49883 7-,071636 RNUNSCICH 0005 01 LITHURES R00250582/M0000P0000 T3 RNWSSH A00035 Cypt. 59,38750 20,49883 7-,071636 RNUNSCICH 0007 01 LITHURES R00250582/M0000P0000 T3 RNWSSH A00035 Cypt. 63,15909 22,32388 33,3345 RNUNSCICH 0007 01 LITHURES R00250582/M0000P0000 T3 RNWSSH A00038 Cypt. 63,15909 22,32388 33,3345 RNUNSCICH 0007 01 LITHURES R00250582/M0000P0000 T3 RNWSSH A00038 Cypt. 63,15901 22,3069 3,31396 RNUNSCICH 0007 01 LITHURES R00250582/M0000P0000 T3 RNWSSH A00034 Cypt. 63,15901 22,36024 3,31399 RNUNSCICH 0007 01 LITHURES R00250582/M0000P0000 T3 RNWSSH A00040 Cypt. 63,15901 22,36024 3,31399 RNUNSCICH 0007 01 LITHURES R00250582/M0000P0000 T3 RNWSSH A00040 Cypt. 63,15907 22,36014 3,31393 RNUNSCICH 0008 01 LITHURES R00250582/M0000P0000 T4 RNWSSH A00040 Cypt. 63,16902 22,36014 3,31393 RNUNSCICH 0008 01 LITHURES R00250582/M0000P0000 T4 RNWSSH A00040 Cypt. 58,56057 19,08831 9,99616 RNUNSCICH 0008 01 LITHURES R00250582/M0000P0000 T4 RNWSSH A00040 Cypt. 58,56057 19,08831 9,99616 RNUNSCICH 0008 01 LITHURES R00250582/M0000P0000 T4 RNWSSH A00040 Cypt. 58,56057 19,09821 9,99616 RNUNSCICH 0008 01 LITHURES R00250582/M0000P0000 T4 RNWSSH A00040 Cypt. 54,549275 19,09831 9,99616 RNUNSCICH 0008 01 LITHURES R00250583/M0000P0000 T4 RNWSSH A00050 Cypt. 54,549275 19,09831 9,99616 RNUNSCICH 000	KUNUSCCLH_0005_01_LibTube42_R00250S8A2M0000P0000_T5_KHWGSH_A00029	Crypt		-20.06273	-10.72425
KUNISCICH 0006 OI LIDTURES1 80025658A2M0000P0000 T3 KHW6S1 A00033					
KUNUSCCH 0000 G1 LIDTUMEN SINOZOSOBRAZMO000P0000 T4 KNYSSH A00033 Crypt 5-94.2872 -0.04.885 7.016.36 KUNUSCCH 0000 G1 LIDTUMEN SINOZOSOBRAZMO000P0000 T5 KNYSSH A00035 Crypt 5-93.2520 -20.4988 7.016.36 KUNUSCCH 0000 G1 LIDTUMEN SINOZOSOBRAZMO000P0000 T5 KNYSSH A00035 Crypt 5-93.2520 -20.4988 7.016.36 KUNUSCCH 0007 G1 LIDTUMEN ROOZOSOBRAZMO00P0000 T2 KNYSSH A00035 Crypt 5-93.2520 -20.4736 6.3369 (2.23.2388 3.33.45 KUNUSCCH 0007 G1 LIDTUMEN KNOZOSOBRAZMO00P0000 T2 KNYSSH A00038 Crypt 6-31.5690 -22.32388 3.33.45 KUNUSCCH 0007 G1 LIDTUMEN KNOZOSOBRAZMO00P0000 T2 KNYSSH A00039 Crypt 6-31.5690 -22.32388 3.33.45 KUNUSCCH 0007 G1 LIDTUMEN KNOZOSOBRAZMO00P0000 T3 KNYSSH A00039 Crypt 6-31.5690 -22.32369 3.31396 KUNUSCCH 0007 G1 LIDTUMEN KNOZOSOBRAZMO00P0000 T4 KNYSSH A00039 Crypt 6-31.6690 -22.32509 3.31396 KUNUSCCH 0007 G1 LIDTUMEN KNOZOSOBRAZMO00P0000 T4 KNYSSH A00041 Crypt 6-31.6690 -22.32509 3.31396 KUNUSCCH 0007 G1 LIDTUMEN KNOZOSOBRAZMO00P0000 T4 KNYSSH A00041 Crypt 6-31.6690 -22.32509 3.31396 KUNUSCCH 0007 G1 LIDTUMEN KNOZOSOBRAZMO00P0000 T4 KNYSSH A00041 Crypt 6-31.6690 19.0881 9.99616 KUNUSCCH 0008 G1 LIDTUMEN KNOZOSOBRAZMO00P0000 T4 KNYSSH A00041 Crypt 5-85.60257 19.1388 9.99616 KUNUSCCH 0008 G1 LIDTUMEN KNOZOSOBRAZMO00P0000 T4 KNYSSH A00045 Crypt 5-85.60257 19.1388 9.99616 KUNUSCCH 0008 G1 LIDTUMEN KNOZOSOBRAZMO00P0000 T4 KNYSSH A00045 Crypt 5-85.60257 19.1988 9.99616 KUNUSCCH 0008 G1 LIDTUMEN KNOZOSOBRAZMO00P0000 T5 KNYSSH A00045 Crypt 5-86.60257 19.1988 9.99616 KUNUSCCH 0008 G1 LIDTUMEN KNOZOSOBRAZMO00P0000 T4 KNYSSH A00045 Crypt 5-86.60257 19.09681 9.997815 KUNUSCCH 0008 G1 LIDTUMEN KNOZOSOBRAZMO00P000 T5 KNYSSH A00045 Crypt 5-86.60257 19.09681 9.997816 KUNUSCCH 0009 G1 LIDTUMEN KNOZOSOBRAZMO00P000 T5 KNYSSH A00045 Crypt 5-86.9057 19.09681 9.997816 KUNUSCCH 0009 G1 LIDTUMEN KNOZOSOBRAZMO00P000 T5 KNYSSH A00045 Crypt 5-89.9057 19.09682 19.09782 19.09782 19.09782 19.09782 19.09782 19.09782 19.09782 19.09782 19.09782 19.09782 19.09782 19.09782 19.09782 19.09782 19.09782 19.09782 19.09782 19.09782 19.09782 19.09			-59.43462		
INJUSICAL PRODE OIL LITHURGE ROOZSOSRAZMOOOPROOD CI. SERVICSEN A00035 LINE S. 9540739 2-047316 5-08608 11 11 11 11 11 11 11		Crypt			
KINNISCCH 0007 01 LITHUAGE RO025058A2M000P000 T. RHWGSH A00035					
KUNISCCH 0007 OI LIDTIDES R0025088A2M0000P0000 T2, KHWGSH A00038					
KUNISCCH 0007 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOD (7ppt 63.21880 12.33099 3.31396 KUNISCCH 0007 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOD (7ppt 63.18078 12.36614 3.31930 KUNISCCH 0007 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOD (7ppt 63.18078 12.36614 3.31930 KUNISCCH 0008 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOD (7ppt 63.18078 12.236614 3.31930 KUNISCCH 0008 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOD (7ppt 53.66027) 19.18088 9.99616 KUNISCCH 0008 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOD (7ppt 53.66257) 19.18088 9.99616 KUNISCCH 0008 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOD (7ppt 53.66257) 19.06605 KUNISCCH 0008 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOD (7ppt 53.66257) 19.06605 KUNISCCH 0008 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOD (7ppt 53.66257) 19.06605 KUNISCCH 0008 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOD (7ppt 53.66257) 19.06605 KUNISCCH 0008 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOD (7ppt 53.66257) 19.06605 KUNISCCH 0009 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOD (7ppt 54.90753) 19.06606 KUNISCCH 0009 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOD (7ppt 54.90753) 19.06606 KUNISCCH 0009 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOD (7ppt 54.90753) 19.0978 10.18173 KUNISCCH 0009 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOD (7ppt 54.90753) 19.595277 14.82508 KUNISCCH 0009 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOS (7ppt 54.90791 19.193871 14.82508 KUNISCCH 0009 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOS (7ppt 54.90791 19.193871 14.82508 KUNISCCH 0010 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOS (7ppt 54.90791 14.83608 KUNISCCH 0010 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOS (7ppt 54.90791 14.83608 KUNISCCH 0010 OIL LIDTURES RODZSOSRAZMODOPODOO TS KHWGSH ADDOOS (7ppt 54.90791 14.90900 15.19300 15.19300 15.19300 15.19300 15.19300 15.19300 15.19300 15.19300 15.19300 15.19300 15.19300 15.19300 15.19300 15.19300 15.19300 15.19300 15.193					
KUNISCCH 0007 OIL DITUBESZ R002508A2M0000P0000 T4 KHWGSH A00041 Cypt 63.16642 22.36022 3.32508 KUNISCCH 0007 OIL DITUBESR R002508A2M0000P0000 T5 KHWGSH A00041 Cypt 63.16642 22.36027 3.31508 KUNISCCH 0008 01 LIDTUBESR R002508A2M0000P0000 T1 KHWGSH A00042 Bulk 63.21717 22.34470 3.35551 KUNISCCH 0008 01 LIDTUBESR R002508A2M0000P0000 T2 KHWGSH A00044 Cypt 58.62590 1.910889 9.99616 KUNISCCH 0008 01 LIDTUBESR R002508A2M0000P0000 T3 KHWGSH A00045 Cypt 58.62590 1.910889 9.99616 KUNISCCH 0008 01 LIDTUBESR R002508A2M0000P0000 T3 KHWGSH A00045 Cypt 58.62590 1.908831 9.9735 KUNISCCH 0008 01 LIDTUBESR R002508A2M0000P0000 T3 KHWGSH A00045 Cypt 58.62590 1.908831 9.97365 KUNISCCH 0008 01 LIDTUBESR R002508A2M0000P0000 T5 KHWGSH A00047 Cypt 58.62590 1.908831 9.97363 KUNISCCH 0008 01 LIDTUBESR R002508A2M000P0000 T5 KHWGSH A00047 Cypt 58.65590 1.909781 9.96485 KUNISCCH 0009 01 LIDTUBESR R002508A2M000P0000 T1 KHWGSH A00049 Cypt 55.04364 1.608283 1-48.1766 KUNISCCH 0009 01 LIDTUBESR R002508A2M000P0000 T1 KHWGSH A00049 Cypt 55.04364 1.608283 1-48.8766 KUNISCCH 0009 01 LIDTUBESR R002508A2M000P0000 T3 KHWGSH A00051 Cypt 54.99100 1.959871 1-48.2274 KUNISCCH 0009 01 LIDTUBESR R002508A2M000P0000 T3 KHWGSH A00051 Cypt 54.99100 1.959871 1-48.2274 KUNISCCH 0009 01 LIDTUBESR R002508A2M000P0000 T5 KHWGSH A00051 Cypt 54.9910 1.959871 1-48.2274 KUNISCCH 0009 01 LIDTUBESR R002508A2M000P0000 T5 KHWGSH A00055 Cypt 54.9910 1.959871 1-48.9206 KUNISCCH 0009 01 LIDTUBESR R002508A2M000P0000 T5 KHWGSH A00055 Cypt 62.75950 1.218990 5.32475 KUNISCCH 0010 01 LIDTUBESR R002508A2M000P000 T1 KHWGSH A00055 Cypt 62.75950 1.218990 5.32475 KUNISCCH 0010 01 LIDTUBESR R002508A2M000P000 T1 KHWGSH A00055 Cypt 62.75950 1.218990 5.32475 KUNISCCH 0010 01 LIDTUBESR R002508A2M0000P000 T1 KHWGSH A00055 Cypt 62.75950 1.218990 5.32475 KUNISCCH 0010 01 LIDTUBESR R002508A2M0000P000 T1 KHWGSH A00057 Cypt 62.75950 1.218990 5.32475 KUNISCCH 0010 01 LIDTUBESR R002508A2M0000P000 T1 KHWGSH A00057 Cypt 62.75950 1.218990 5.32475 KUNISCCH 0010 0					
KUNUSCCH 0007 01 LIBTURES R0025058A2M0000P0000 TL KRWGSH A00042	KUNUSCCLH_0007_01_LibTube32_R00250S8A2M0000P0000_T4_KHWGSH_A00040	Crypt			
EUNISCICH 0008 01 Libride 80025058A2M0000P0000 T1 KRWGSH A00043					
KUNISCCH 0008 01 Libriube25 R00250S8A2M0000P0000 T3 KRWGSH A00045 Crypt -58.62590 -19.08831 -9.97363 KUNISCCH 0008 01 Libriube28 R00250S8A2M0000P0000 T5 KRWGSH A00047 Crybt -58.59572 -19.09921 -9.95482 KUNISCCH 0008 01 Libriube34 R00250S8A2M0000P0000 T1 KRWGSH A00049 Crybt -55.03564 -16.08283 -14.81769 KUNISCCH 0009 01 Libriube34 R00250S8A2M0000P0000 T1 KRWGSH A00059 Crypt -55.03564 -16.08283 -14.81769 KUNISCCH 0009 01 Libriube34 R00250S8A2M0000P0000 T2 KRWGSH A00059 Crypt -55.93564 -16.08283 -14.81769 KUNISCCH 0009 01 Libriube36 R00250S8A2M0000P0000 T2 KRWGSH A00050 Crypt -59.99700 -15.93764 -14.822783 KUNISCCH 0009 01 Libriube36 R00250S8A2M0000P0000 T4 KRWGSH A00050 Crypt -59.99700 -15.93764 -14.82583 KUNISCCH 0009 01 Libriube36 R00250S8A2M0000P0000 T4 KRWGSH A00050 Crypt -59.99700 -15.93791 -14.82583 KUNISCCH 0009 01 Libriube37 R00250S8A2M0000P0000 T4 KRWGSH A00050 Crypt -59.99500 -15.93791 -14.82583 KUNISCCH 0009 01 Libriube37 R00250S8A2M0000P0000 T4 KRWGSH A00055 Crypt -62.83368 -21.94723 -25.23711 KUNISCCH 0010 01 Libriube37 R00250S8A2M0000P0000 T2 KRWGSH A00055 Crypt -62.83368 -21.94723 -5.23711 KUNISCCH 0010 01 Libriube47 R00250S8A2M0000P0000 T2 KRWGSH A00055 Crypt -62.75908 -12.9102 -5.19235 KUNISCCH 0010 01 Libriube47 R00250S8A2M0000P0000 T3 KRWGSH A00055 Crypt -62.75901 -21.89980 -5.22237 KUNISCCH 0010 01 Libriube47 R00250S8A2M0000P0000 T3 KRWGSH A00055 Crypt -62.75901 -21.89980 -5.22237 KUNISCCH 0010 01 Libriube47 R00250S8A2M0000P0000 T3 KRWGSH A00056 Crypt -62.75901 -21.89980 -5.22237 KUNISCCH 0010 01 Libriube47 R00250S8A2M0000P0000 T3 KRWGSH A00056 Crypt -62.75901 -21.89980 -5.22237 KUNISCCH 0010 01 Libriube47 R00250S8A2M0000P0000 T3 KRWGSH A00056 Crypt -62.75901 -21.89980 -5.22237 KUNISCCH 0010 01 Libriube47 R00250S8A2M0000P0000 T3 KRWGSH A00056 Crypt -69.93193 -4.94876 -11.59037 KUNISCCH 0011 01 Libriube47 R00250S8A2M0000P0000 T3 KRWGSH A00066 Crypt -69.93193 -4.94876 -11.59037 KUNISCCH 0011 01 Libriube47 R00250S8A2M0000P0000 T3 KRWGSH A00066 Crypt -69.93193 -4.94876 -11.59331 KUNISCCH 0011 01 L		_			
KUNUSCCH 0008 01 Libriube3 80025058A2M0000P0000 T4 KHWGSH A00046 Crypt -58.69571 19.06605 -9.97263 KUNUSCCH 0008 01 Libriube88 R0025058A2M0000P0000 C1 KHWGSH A00048 Rulk -58.56305 19.07978 -10.01873 KUNUSCCH 0009 01 Libriube48 R0025058A2M0000P0000 T1 KHWGSH A00049 Crypt -55.04364 -16.08283 -14.81769 KUNUSCCH 0009 01 Libriube48 R0025058A2M0000P0000 T1 KHWGSH A00050 Crypt -55.04364 -16.08283 -14.81769 KUNUSCCH 0009 01 Libriube68 R0025058A2M0000P0000 T2 KHWGSH A00050 Crypt -59.499100 -15.93871 -14.82524 KUNUSCCH 0009 01 Libriube68 R0025058A2M0000P0000 T3 KHWGSH A00051 Crypt -54.999100 -15.93871 -14.82524 KUNUSCCH 0009 01 Libriube78 R0025058A2M0000P0000 T5 KHWGSH A00052 Crypt -54.99910 -15.93871 -14.82524 KUNUSCCH 0009 01 Libriube79 R0025058A2M0000P0000 T5 KHWGSH A00052 Crypt -54.99904 -15.99116 -14.89400 KUNUSCCH 0009 01 Libriube79 R0025058A2M0000P0000 T5 KHWGSH A00055 Crypt -62.793979 11.599116 -14.89400 KUNUSCCH 0010 01 Libriube78 R0025058A2M0000P0000 T5 KHWGSH A00055 Crypt -62.79380 21.9916 -14.89400 KUNUSCCH 0010 01 Libriube78 R0025058A2M0000P0000 T5 KHWGSH A00055 Crypt -62.79388 21.94723 -52.3711 KUNUSCCH 0010 01 Libriube78 R0025058A2M0000P0000 T5 KHWGSH A00055 Crypt -62.7938 21.99580 -52.2257 KUNUSCCCH 0010 01 Libriube78 R0025058A2M0000P0000 T6 KHWGSH A00055 Crypt -62.79380 Z1.99580 -52.2257 KUNUSCCCH 0010 01 Libriube79 R0025058A2M0000P0000 T6 KHWGSH A00056 Crypt -62.79380 Z1.99580 -52.2257 KUNUSCCCH 0010 01 Libriube79 R0025058A2M0000P0000 T6 KHWGSH A00056 Crypt -62.79391 Z1.98980 -52.2257 KUNUSCCCH 0010 01 Libriube80 R0025058A2M0000P0000 T6 KHWGSH A00056 Crypt -62.79391 Z1.98980 -52.2257 KUNUSCCCH 0010 01 Libriube79 R0025058A2M0000P000 T6 KHWGSH A00056 Crypt -59.32586 -48.6293 -11.59315 KUNUSCCCH 0011 01 Libriube79 R0025058A2M0000P000 T6 KHWGSH A00056 Crypt -59.32586 -48.6293 -11.59315 KUNUSCCCH 0011 01 Libriube80 R0025058A2M0000P000 T6 KHWGSH A00056 Crypt -59.32586 -48.6293 -11.59315 KUNUSCCCH 0011 01 Libriube79 R0025058A2M0000P000 T6 KHWGSH A00056 Crypt -60.93191 41.62841 -12.09326 KUNUSCCCH 0011 01 Libri					
EUNIUSCCIH 0008 01 LIbTube88 R00255S8A2M0000P0000 T1 KHWGSH A00048					
KINUSCCH 0009 01 LIbTube48 R00255S8A2M0000P0000 T2 KHWGSH A00050	KUNUSCCLH 0008 01 LibTube62 R00250S8A2M0000P0000 T5 KHWGSH A00047				
KUNUSCCH 0009 01 LIbTube65 R0025S08A2M0000P0000 T2 KHWGSH A00051		_			
KUNUSCCH 0009 01 LIbTube63 R00250S8A2M0000P0000 T5 KHWGSH A00053 Crypt					
KUNUSCCH 0009 01 LIbTube89 R00250S8A2M0000P0000 T. KHWGSH A00054 Bulk -55.02470 -16.03176 -14.76079 KUNUSCCH 0010 01 LibTube83 R00250S8A2M0000P0000 T. KHWGSH A00055 Crypt -62.83368 -21.94723 -5.23711 KUNUSCCH 0010 01 LibTube83 R00250S8A2M0000P0000 T. KHWGSH A00055 Crypt -62.83368 -21.94723 -5.23711 KUNUSCCH 0010 01 LibTube84 R00250S8A2M0000P0000 T. KHWGSH A00055 Crypt -62.7938 -21.99102 -51.9950 KUNUSCCH 0010 01 LibTube87 R00250S8A2M0000P0000 T. KHWGSH A00055 Crypt -62.7938 -21.99102 -51.9950 KUNUSCCH 0010 01 LibTube87 R00250S8A2M0000P0000 T. KHWGSH A00059 Crypt -62.79005 -21.87944 -5.18010 KUNUSCCH 0010 01 LibTube80 R00250S8A2M0000P0000 T. KHWGSH A00059 Crypt -62.79005 -21.87944 -5.18010 KUNUSCCH 0011 01 LibTube80 R00250S8A2M0000P0000 T. KHWGSH A00050 Bulk -62.74871 -21.89841 -5.20237 KUNUSCCH 0011 01 LibTube86 R00250S8A2M0000P0000 T. KHWGSH A00060 Bulk -62.74871 -21.89841 -5.20237 KUNUSCCH 0011 01 LibTube87 R00250S8A2M0000P0000 T. KHWGSH A00060 Crypt -59.31933 -4.94876 -11.59313 KUNUSCCH 0011 01 LibTube57 R00250S8A2M0000P0000 T. KHWGSH A00060 Crypt -59.93930 -4.94876 -11.59313 KUNUSCCH 0011 01 LibTube57 R00250S8A2M0000P0000 T. KHWGSH A00064 Crypt -59.34010 -4.94060 -11.57434 KUNUSCCH 0011 01 LibTube57 R00250S8A2M0000P0000 T. KHWGSH A00065 Crypt -59.4764 -4.86627 -11.55313 KUNUSCCH 0011 01 LibTube57 R00250S8A2M0000P0000 T. KHWGSH A00065 Crypt -59.4764 -4.86627 -11.55313 KUNUSCCH 0012 01 LibTube38 R00250S8A2M0000P0000 T. KHWGSH A00065 Crypt -60.7933 -16.24541 -12.09312 KUNUSCCH 0012 01 LibTube38 R00250S8A2M0000P0000 T. KHWGSH A00070 Crypt -60.6951 -16.28174 -12.09312 KUNUSCCH 0012 01 LibTube38 R00250S8A2M0000P0000 T. KHW					
RUNIUSCCH 0010 01 LIDTUBES R00250S8A2M0000P0000 T1 KHWGSH A00055					
KUNUSCCH 0010 01 LibTube47 R00250S8A2M0000P0000 T2 KHWGSH A00056		Bulk			
RUNUSCCIH 0010 01 LIDTUBEGA RO0250S8A2M0000P0000 T3 KHWGSH A00058					
KUNUSCCLH 0010 01 LIDTUBE97 RO0250S8A2M0000P0000 T5 KHWGSH A00058					
KUNUSCCLH 0011 01 LIDTUBE93 R00250S8A2M0000P0000 T2 KHWGSH A00061		Crypt			
KUNUSCCLH 0011 01 LIDTUbe38 R00250S8A2M0000P0000 T2 KHWGSH A00062					
RUNUSCCIH 0011 01 LIDTUBESZ RO0250S8AZM0000P0000 T3 KHWGSH A00063					
KUNUSCCLH 0011 01 LIDTUBEST R00250S8A2M0000P0000 T3 KHWGSH A00064					
KUNUSCCLH 0011 01 LIDTUbe95 R00250S8A2M0000P0000 T2 KHWGSH A00066					
KUNUSCCLH 0012 01 LIDTUBE37 R00250S8A2M0000P0000 T3 KHWGSH A00069		Crypt	33.71132	4.03103	11.55557
RUNUSCCH 0012 01 LIDTUBE3 R00250S8A2M0000P0000 T1 KHWGSH A00070		_			
KUNUSCCLH 0012 01 LIDTUbe49 R00250S8A2M0000P0000 T4 KHWGSH A00071	KUNUSCCLH_0012_01_LibTube3_R00250S8A2M0000P0000_T1_KHWGSH_A00067			-16.26396	
KUNUSCCLH 0012 01 LIDTube98 R00250S8A2M0000P0000 T7 KHWGSH A00098		Crypt			
RUNUSCCIH 0012 01 LIDTUBE99 R00250S8A2M0000P0000 TZ KHWGSH A00078					
KUNUSCCLH 0013 01 LibTube88 R00250S8A2M0000P0000 T1 KHWGSH A00073 Crypt -60.92050 -14.56538 8.93196 KUNUSCCLH 0013 01 LibTube58 R00250S8A2M0000P0000 T2 KHWGSH A00076 Crypt -60.9509 -14.51123 48.88849 KUNUSCCLH 0013 01 LibTube68 R00250S8A2M0000P0000 T3 KHWGSH A00076 Crypt -60.97896 -14.51353 -8.94317 KUNUSCCLH 0013 01 LibTube64 R00250S8A2M0000P0000 T2 KHWGSH A00076 Crypt -60.97896 -14.51353 -8.94317 KUNUSCCLH 0013 01 LibTube94 R00250S8A2M0000P0000 T2 KHWGSH A00077 Crypt -60.98887 11.448307 -8.94730 KUNUSCCLH 0014 01 LibTube93 R00250S8A2M0000P0000 T2 KHWGSH A00079 Crypt -64.84479 17.17523 -6.50672 KUNUSCCLH 0014 01 LibTube44 <td>KUNUSCCLH_0012_01_LibTube99_R00250S8A2M0000P0000_T7_KHWGSH_A00098</td> <td>Crypt</td> <td>-60.69218</td> <td>-16.25088</td> <td>-12.02653</td>	KUNUSCCLH_0012_01_LibTube99_R00250S8A2M0000P0000_T7_KHWGSH_A00098	Crypt	-60.69218	-16.25088	-12.02653
RUNUSCCLH 0013 01 LIDTUBESS R00250S8A2M0000P0000 T2 KHWGSH A00075					
KUNUSCCLH 0013 01 LIDTube58 R00250S8A2M0000P0000 T3 KHWGSH A00075					
KUNUSCCLH 0013 01 LibTubeP4 R00250S8A2M0000P0000 TS kHWGSH A00077 Crypt -60.95887 -14.48307 -8.94730 KUNUSCCLH 0013 01 LibTube93 R00250S8A2M0000P0000 TL KHWGSH A00078 Bulk -60.89802 -14.44578 -9.00840 KUNUSCCLH 0014 01 LibTube93 R00250S8A2M0000P0000 TL KHWGSH A00080 Crypt -64.84479 17.1723138 -6.52555 KUNUSCCLH 0014 01 LibTube51 R00250S8A2M0000P0000 T2 KHWGSH A00080 Crypt -64.84722 17.23138 -6.52555 KUNUSCCLH 0014 01 LibTube59 R00250S8A2M0000P0000 T3 KHWGSH A00080 Crypt -64.89753 17.19887 -6.55670 KUNUSCCLH 0014 01 LibTube59 R00250S8A2M0000P0000 T5 KHWGSH A00083 Crypt -64.82951 17.28488 -6.52739 KUNUSCCLH 0014 01 LibTube64 <td></td> <td>Crypt</td> <td></td> <td></td> <td></td>		Crypt			
KUNUSCCIH_ 0014_01_LibTube93_R00250S8A2M0000P0000_C1_KHWGSH_A00078_					
RUNUSCCLH 0014 01 LIDTUbe51 R00250S8A2M0000P0000 T3 KHWGSH A00080	KUNUSCCLH_0013_01_LibTube93_R00250S8A2M0000P0000_C1_KHWGSH_A00078	Bulk	-60.78902	-14.47578	-9.00840
KUNUSCCLH 0014 01 LibTube54 R00250S8A2M0000P0000 T3 KHWGSH A00081 Crypt -64.91245 17.23479 -6.51670 KUNUSCCLH 0014 01 LibTube59 R00250S8A2M0000P0000 T5 KHWGSH A00082 Crypt -64.86753 17.29843 -6.5393 KUNUSCCLH 0014 01 LibTube64 R00250S8A2M0000P0000 T5 KHWGSH A00084 Bulk -64.59359 17.29044 -6.53240 KUNUSCCLH 0015 01 LibTube40 R00250S8A2M0000P0000 T2 KHWGSH A00085 Crypt -71.78086 -1.50870 14.17252 KUNUSCCLH 0015 01 LibTube40 R00250S8A2M0000P0000 T2 KHWGSH A00086 Crypt -71.78086 -1.51245 -14.29218 KUNUSCCLH 0015 01 LibTube60 R00250S8A2M0000P0000 T3 KHWGSH A00088 Crypt -71.78885 -1.44006 -14.32027 KUNUSCCLH 0015 01 LibTube57					
RUNUSCCLH 0014 01 LibTube59 R00250S8A2M0000P0000 T4 KHWGSH A00082 Crypt -64.86753 17.19853 -6.48966 KUNUSCCLH 0014 01 LibTube67 R00250S8A2M0000P0000 T5 KHWGSH A00083 Crypt -64.82951 17.28488 -6.52739 KUNUSCCLH 0015 01 LibTube44 R00250S8A2M000P0000 C1 KHWGSH A00085 Runuscch Runuscch 0015 01 LibTube44 R00250S8A2M000P0000 T1 KHWGSH A00085 Crypt -71.90836 -1.50870 -14.17252 KUNUSCCLH 0015 01 LibTube64 R00250S8A2M000P0000 T3 KHWGSH A00086 Crypt -71.78667 -1.51245 -14.29218 KUNUSCCLH 0015 01 LibTube66 R00250S8A2M000P0000 T3 KHWGSH A00086 Crypt -71.78667 -1.51245 -14.29218 KUNUSCCLH 0015 01 LibTube68 R00250S8A2M000P0000 T3 KHWGSH A00088 Crypt -71.78858 -1.44006 -14.32027 KUNUSCCLH 0015 01 LibTube75 R00250S8A2M000P0000 T3 KHWGSH A00089 Crypt -71.89845 -1.51053 -14.26915 KUNUSCCLH 0015 01 LibTube75 R00250S8A2M000P0000 T3 KHWGSH A00091 Rulk -71.39945 -1.51053 -14.56915 KUNUSCCLH 0016 01 LibTube41 R00250S8A2M000P0000 T3 KHWGSH A00091 Crypt -64.65142 10.52669 -5.60516 KUNUSCCLH 0016 01 LibTube61 R00250S8A2M000P0000 T3 KHWGSH A00093 Crypt -64.65142 10.52669 -5.69322 KUNUSCCLH 0016 01 LibTube61 R00250S8A2M000P0000 T3 KHWGSH A00093 Crypt -64.65146 10.58661 -5.68672 KUNUSCCLH 0016 01 LibTube61 R00250S8A2M000P0000 T3 KHWGSH A00093 Crypt -64.65146 10.58661 -5.68672 KUNUSCCLH 0016 01 LibTube61 R00250S8A2M000P0000 T3 KHWGSH A00093 Crypt -64.65146 10.58661 -5.68672 KUNUSCCLH 0016 01 LibTube69 R00250S8A2M000P0000 T3 KHWGSH A00093 Crypt -64.65146 10.58661 -5.68672 -5.6					
RUNUSCCLH 0014 01 LibTube94 R00250S8A2M0000P0000 C1 KHWGSH A00084 Bulk -64.59359 17.29044 -6.53240	KUNUSCCLH_0014_01_LibTube59_R00250S8A2M0000P0000_T4_KHWGSH_A00082	Crypt			
KUNUSCCLH 0015 01 LibTube40 R00250S8A2M0000P0000 T1 KHWGSH A00085 Crypt -71.90836 -1.50870 -14.17252 KUNUSCCLH 0015 01 LibTube40 R00250S8A2M0000P0000 72 KHWGSH A00086 Crypt -71.78067 -1.51245 -14.29218 KUNUSCCLH 0015 01 LibTube68 R00250S8A2M0000P0000 73 KHWGSH A00088 Crypt -71.718358 -1.44006 -14.32027 KUNUSCCLH 0015 01 LibTube75 R00250S8A2M0000P0000 71 KHWGSH A00088 Crypt -71.89845 -1.51053 -14.26915 KUNUSCCLH 0015 01 LibTube95 R00250S8A2M0000P0000 71 KHWGSH A00091 Bulk -71.39845 -1.51053 -14.59915 KUNUSCCLH 0016 01 LibTube41 R00250S8A2M0000P0000 71 KHWGSH A00091 Crypt -64.65142 10.52669 -5.60516 KUNUSCCLH 0016 01 LibTube45 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
KUNUSCCLH 0015 01 LibTube44 R00250S8A2M0000P0000 T3 KHWGSH A00086 Crypt -71.78667 -1.51245 -14.29218 KUNUSCCLH 0015 01 LibTube60 R00250S8A2M0000P0000 T3 KHWGSH A00087 Crypt -71.91135 -1.51507 -14.20557 KUNUSCCLH 0015 01 LibTube68 R00250S8A2M0000P0000 T4 KHWGSH A00088 Crypt -71.78858 -1.44006 -14.32027 KUNUSCCLH 0015 01 LibTube75 R00250S8A2M0000P0000 T5 KHWGSH A00089 Crypt -71.89845 -1.51053 -14.26915 KUNUSCCLH 0015 01 LibTube45 R00250S8A2M0000P0000 C1 KHWGSH A00090 Bulk -71.70359 -1.54053 -14.31873 KUNUSCCLH 0016 01 LibTube41 R00250S8A2M0000P0000 T2 KHWGSH A00091 Crypt -64.55142 -10.52669 -5.60516 KUNUSCCLH 0016 01 LibTube45 R00250S8A2M0000P0000 T3 KHWGSH A00092 Crypt -64.57528 -10.58763 -5.99322 KUNUSCCLH 0016 01 LibTube61 R00250S8A2M0000P0000 T3 KHWGSH A00093 Crypt -64.64276 -10.62040 -5.68650 KUNUSCCLH 0016 01 LibTube69 R00250S8A2M0000P0000 T3 KHWGSH A00093 Crypt -64.64276 -10.62040 -5.68650 KUNUSCCLH 0016 01 LibTube69 R00250S8A2M0000P0000 T3 KHWGSH A00094 Crypt -64.64276 -10.62040 -5.68650	KUNUSCCLH_0015_01_LibTube40_R00250S8A2M0000P0000_T1_KHWGSH_A00085			-1.50870	-14.17252
KUNUSCCLH 0015 01 LibTube68 R00250S8A2M0000P0000 T3 KHWGSH A00088 Crypt -71.78858 -1.44006 -14.32027 KUNUSCCLH 0015 01 LibTube75 R00250S8A2M0000P0000 C1 KHWGSH A00099 Rypt -71.89845 -1.45052 -14.31873 KUNUSCCLH 0016 01 LibTube41 R00250S8A2M0000P0000 T1 KHWGSH A00091 Crypt -64.65142 10.52669 -5.60516 KUNUSCCLH 0016 01 LibTube45 R00250S8A2M0000P0000 T3 KHWGSH A00092 Crypt -64.57528 10.58763 -5.69322 KUNUSCCLH 0016 01 LibTube61 R00250S8A2M0000P0000 T3 KHWGSH A00094 Crypt -64.64276 10.62004 -5.68672 KUNUSCCLH 0016 01 LibTube69 R00250S8A2M0000P0000 T4 KHWGSH A00094 Crypt -64.64276 10.62004 -5.68650		Crypt			
KUNUSCCLH 0015 01 LibTube75 R00250S8A2M0000P0000 CTS KHWGSH A00089 Crypt -71.89845 -1.51053 -14.26915 KUNUSCCLH 0015 01 LibTube95 R00250S8A2M0000P0000 C1 KHWGSH A00099 Bulk -71.70359 -1.45052 -14.31873 KUNUSCCLH 0016 01 LibTube41 R00250S8A2M0000P0000 T2 KHWGSH A000992 Crypt -64.65142 10.52669 -5.69322 KUNUSCCLH 0016 01 LibTube61 R00250S8A2M0000P0000 T3 KHWGSH A00093 Crypt -64.64276 10.62040 -5.68650 KUNUSCCLH 0016 01 LibTube69 R00250S8A2M0000P0000 T4 KHWGSH A00093 Crypt -64.64276 10.62040 -5.68650 KUNUSCCLH 0016 01 LibTube69 R00250S8A2M0000P000 T4 KHWGSH A00093 Crypt -64.64276 10.62040 -5.68672		1			
KUNUSCCLH_0016_01_LibTube41_R00250S8A2M0000P0000_T1_KHWGSH_A00091 Crypt -64.65142 10.52669 -5.60516 KUNUSCCLH_0016_01_LibTube45_R00250S8A2M0000P0000_T2_KHWGSH_A00092 Crypt -64.57528 10.58763 -5.69322 KUNUSCCLH_0016_01_LibTube61_R00250S8A2M0000P0000_T3_KHWGSH_A00093 Crypt -64.64276 10.62040 -5.68502 KUNUSCCLH_0016_01_LibTube69_R00250S8A2M0000P0000_T4_KHWGSH_A00094 Crypt -64.64276 10.58661 -5.68672	KUNUSCCLH_0015_01_LibTube75_R00250S8A2M0000P0000_T5_KHWGSH_A00089	Crypt	-71.89845	-1.51053	-14.26915
KUNUSCCLH_0016_01_LibTube45_R00250S8A2M0000P0000_T2_KHWGSH_A00092 Crypt -64.57528 10.58763 -5.69322 KUNUSCCLH_0016_01_LibTube61_R00250S8A2M0000P0000_T3_KHWGSH_A00093 Crypt -64.64276 10.62040 -5.68650 KUNUSCCLH_0016_01_LibTube69_R00250S8A2M0000P0000_T4_KHWGSH_A00094 Crypt -64.59464 10.58661 -5.68672					
KUNUSCCLH_0016_01_LibTube61_R00250S8A2M0000P0000_T3_KHWGSH_A00093 Crypt -64.64276 10.62040 -5.68650 KUNUSCCLH_0016_01_LibTube69_R00250S8A2M0000P0000_T4_KHWGSH_A00094 Crypt -64.59464 10.58661 -5.68672					
	KUNUSCCLH_0016_01_LibTube61_R00250S8A2M0000P0000_T3_KHWGSH_A00093	Crypt	-64.64276	10.62040	
KUNUSCCLH_0016_01_LibTube76_R00250S8A2M0000P0000 T5 KHWGSH A00095 Crvpt I -64.67225 10.56988 -5.65883	KUNUSCCLH_0016_01_LibTube69_R00250S8A2M0000P0000_T4_KHWGSH_A00094_ KUNUSCCLH_0016_01_LibTube76_R00250S8A2M0000P0000_T5_KHWGSH_A00095	Crypt Crypt	-64.59464 -64.67225	10.58661 10.56988	-5.68672 -5.65883
KUNUSCCLH_0016_01_LibTube96_R00250S8A2M0000P0000_C1_KHWGSH_A00096					