

Contrast:

Group	x
Control.F4	-1
Mutant.F4	1
Control.F5	0
Mutant.F5	0
Control.F6	0
Mutant.F6	0
Control.F7	0
Mutant.F7	0
Control.F8	0
Mutant.F8	0
Control.F9	0
Mutant.F9	0
Control.F10	0
Mutant.F10	0

Results:

Comparison	Protein	Log2 Fold Change	P-value	P-adjust	SE	DF
Mutant.F10-Control.F10	Q3UMB9	-1.835485	0	0	0.1513823	26.00002
Mutant.F4-Control.F4	Q3UMB9	-1.307498	0	0	0.1513823	26.00002
Mutant.F5-Control.F5	Q3UMB9	-1.377369	0	0	0.1513823	26.00002
Mutant.F6-Control.F6	Q3UMB9	-1.598311	0	0	0.1513823	26.00002
Mutant.F7-Control.F7	Q3UMB9	-1.688940	0	0	0.1513823	26.00002
Mutant.F8-Control.F8	Q3UMB9	-1.637331	0	0	0.1513823	26.00002
Mutant.F9-Control.F9	Q3UMB9	-1.173553	0	0	0.1513823	26.00002

Linear mixed model fit by REML. t-tests use Satterthwaite's method
[lmerModLmerTest]

Formula: Abundance ~ 1 + (1|Mixture) + Condition
Data: msstats_prot %>% filter(Protein == prot)

REML criterion at convergence: 3.7

Scaled residuals:

Min	1Q	Median	3Q	Max
-1.5019	-0.6087	-0.1490	0.7500	1.4234

Random effects:

Groups	Name	Variance	Std.Dev.
Mixture	(Intercept)	0.009755	0.09877
Residual		0.034375	0.18540

Number of obs: 42, groups: Mixture, 3

Fixed effects:

	Estimate	Std. Error	df	t value	Pr(> t)
(Intercept)	7.6219	0.1213	17.1227	62.843	< 2e-16 ***
ConditionControl.F4	-0.9095	0.1514	26.0000	-6.008	2.41e-06 ***
ConditionControl.F5	-0.6757	0.1514	26.0000	-4.464	0.000138 ***
ConditionControl.F6	-0.3812	0.1514	26.0000	-2.518	0.018302 *
ConditionControl.F7	-0.3003	0.1514	26.0000	-1.983	0.057978 .
ConditionControl.F8	-0.4917	0.1514	26.0000	-3.248	0.003198 **
ConditionControl.F9	-0.6658	0.1514	26.0000	-4.398	0.000165 ***
ConditionMutant.F10	-1.8355	0.1514	26.0000	-12.125	3.33e-12 ***
ConditionMutant.F4	-2.2170	0.1514	26.0000	-14.645	4.51e-14 ***
ConditionMutant.F5	-2.0531	0.1514	26.0000	-13.562	2.66e-13 ***
ConditionMutant.F6	-1.9795	0.1514	26.0000	-13.076	6.11e-13 ***
ConditionMutant.F7	-1.9892	0.1514	26.0000	-13.140	5.46e-13 ***
ConditionMutant.F8	-2.1290	0.1514	26.0000	-14.064	1.15e-13 ***
ConditionMutant.F9	-1.8394	0.1514	26.0000	-12.150	3.18e-12 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Correlation matrix not shown by default, as p = 14 > 12.

Use print(summary(fit), correlation=TRUE) or
vcov(summary(fit)) if you need it