**Table 2: Changes in cell volume upon hypoosmotic stress**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **WT** | **Cas9** | **TcMscS-KD** | **TcMscS-KO** |
| Peak (%) | 25.83±0.52 | 23.08±0.23 | 39.10±0.63\* | 38.96±1.64\* |
| p-value |  | 0.575 | 2.43E-09 | 8.65E-05 |
| Recovery slope | -0.0360±0.0029 | -0.0327±0.0057 | -0.0471±0.0031 | -0.0685±0.002\* |
| p-value |  | 0.629 | 0.025 | 7.3E-06 |
| Final volume  | 8.86±0.71 | 7.99±2.05 | 20.48±0.65\* | 17.60±0.68\* |
| p-value |  | 0.7099 | 2.96E-07 | 4.95E-06 |

For all the conditions values are Mean±SE of n=6- p values were calculated based on one-way ANOVA analysis with Bonferroni post-test. Differences were considered significant when p<0.01(\*).