

Table S3.**Figure 4 data.****DY682 PCR**

| Exp# | Ethylene glycol | 0.25 | 0.5 | 1 | 1.5 2M | | |
|----------------|-----------------|------|-------|----------------|--------|------|---------------------|
| #1 | none | 13.3 | 19.66 | 32 | 33.9 | 38 | 28 band intensity |
| | | | | 2.548872 ratio | | | |
| #2 | none | 7.7 | 11.5 | 19.8 | 21 | 24 | 19.8 band intensity |
| | | | | 2.727273 ratio | | | |
| #3 | none | 5.6 | 13.5 | 17 | 19.5 | 24.4 | 11.2 band intensity |
| | | | | 3.482143 ratio | | | |
| Betaine | | | | | | | |
| #1 | none | 13.3 | 19.5 | 30 | 35 | 27.9 | 18.9 band intensity |
| | | | | 2.631579 ratio | | | |
| #2 | none | 7.7 | 13 | 18 | 22.3 | 18.4 | 10.9 band intensity |
| | | | | 2.896104 ratio | | | |
| #3 | none | 5.6 | 8.6 | 13.6 | 18.5 | 22.2 | 16 band intensity |
| | | | | 3.303571 ratio | | | |

Glycerol

| | | | | | | | |
|----|------|------|----------------|------|------|----|---------------------|
| #1 | None | 0.25 | 0.5 | 1 | 1.5 | 2M | |
| | 23 | 22.8 | 21,3 | 22.9 | 20.3 | | 23.9 band intensity |
| | | | 0.995652 ratio | | | | |
| #2 | None | 0.25 | 0.5 | 1 | 1.5 | 2M | |
| | 11.8 | 11 | 11 | 12.1 | 11 | | 13.8 band intensity |
| | | | 1.025424 ratio | | | | |
| #3 | None | 0.25 | 0.5 | 1 | 1.5 | 2M | |
| | 36.3 | 33 | 32 | 37 | 32 | | 36 band intensity |
| | | | 1.019284 ratio | | | | |

DMSO

| | | | | | | | |
|----|------|------|----------------|-------|------|-----|--------------------|
| #1 | none | 1 | 2.5 | 5 | 7.5 | 10% | |
| | 23 | 24.9 | 24.55 | 28.26 | 12.4 | | 6 band intensity |
| | | | 1.228696 ratio | | | | |
| #2 | none | 1 | 2.5 | 5 | 7.5 | 10% | |
| | 11.8 | 13.2 | 15 | 15.7 | 7.3 | | 2.9 band intensity |
| | | | 1.330508 ratio | | | | |
| #3 | none | 1 | 2.5 | 5 | 7.5 | 10% | |
| | 36.3 | 41 | 47 | 47 | 29 | | 18 band intensity |
| | | | 1.294766 ratio | | | | |

Digoxigenin PCR

| | | Ethylene glycol | | | | |
|----|------|-----------------|----------------|------|---------|---------------------|
| # | none | 0.25 | 0.5 | 1 | 1.5 2M | |
| #1 | 17 | 26 | 43.4 | 45 | 55 | 38.8 band intensity |
| | | | 2.647059 ratio | | | |
| #2 | 22.3 | 36 | 53 | 57.3 | 64.6 | 42.4 band intensity |
| | | | 2.569507 ratio | | | |
| #3 | 23.5 | 40.4 | 50 | 54 | 60 | 46.7 band intensity |
| | | | 2.297872 ratio | | | |
| | | Betaine | | | | |
| # | none | 0.25 | 0.5 | 1 | 1.5 2 M | |
| #1 | 17 | 25 | 41 | 50 | 37 | 28 band intensity |
| | | | 2.941176 ratio | | | |
| #2 | 22.3 | 25.5 | 32.2 | 55 | 40 | 34 band intensity |
| | | | 2.466368 ratio | | | |
| #3 | 23.5 | 32 | 37 | 56 | 30 | 22.6 band intensity |
| | | | 2.382979 ratio | | | |

| Glycerol | | | | | | | |
|-----------------|------|------|----------------|------|------|-----|---------------------|
| #1 | None | 0.25 | 0.5 | 1 | 1.5 | 2M | |
| | 30 | 27.6 | 28.2 | 29.4 | 28.3 | | 32 band intensity |
| | | | 0.98 ratio | | | | |
| #2 | None | 0.25 | 0.5 | 1 | 1.5 | 2M | |
| | 15.7 | 14.5 | 16.2 | 18 | 18 | | 17.6 band intensity |
| | | | 1.146497 ratio | | | | |
| #3 | None | 0.25 | 0.5 | 1 | 1.5 | 2M | |
| | 11 | 11 | 10 | 11 | 10 | | 11 band intensity |
| | | | 1 ratio | | | | |
| DMSO | | | | | | | |
| #1 | none | 1 | 2.5 | 5 | 7.5 | 10% | |
| | 30 | 37.3 | 34.5 | 27.6 | 16 | | 14 band intensity |
| | | | 0.92 ratio | | | | |
| #2 | none | 1 | 2.5 | 5 | 7.5 | 10% | |
| | 15.7 | 18 | 19 | 18.2 | 14.4 | | 6 band intensity |
| | | | 1.159236 ratio | | | | |
| #3 | none | 1 | 2.5 | 5 | 7.5 | 10% | |
| | 11 | 11 | 11.4 | 11.8 | 8.1 | | 55 band intensity |
| | | | 1.072727 ratio | | | | |

| | 1 M Ethylene Glycol | | 1 M Betaine | | 1 M Glycerol | | 5% DMSO | |
|-------------|---------------------|------|-------------|------|--------------|------|---------|------|
| | avg | std | avg | std | avg | std | avg | std |
| DY682 | 2.92 | 0.50 | 2.94 | 0.34 | 1.01 | 0.02 | 1.28 | 0.05 |
| Digoxigenin | 2.50 | 0.18 | 2.60 | 0.30 | 1.04 | 0.09 | 1.05 | 0.12 |