Dye Compatibility for Multiplexing with Mx3000P and Mx3005P QPCR Systems

Cy5

OK=OK Mx pair (CT<1%)

Cy5

0K

Ct=<5% cross talk

0K

OK

Ct+=>5% cross talk

Cross talk: refers to two dyes that have overlapping excitation and emission spectra. If dye pairs of this sort are multiplexed, you will see

| Filter Set | Probe Dye | FAM | TET | HEX | J0E | VIC | Cy3 | TAMRA | ROX | Texas Red | Cy5 |
|-----------------|-------------|-----|--------|--------|-----|-----|-----|---------|--------|-----------|-----|
| Alexa350 | Alexa350 | OK | OK | OK | OK | OK | OK | OK | OK | OK | OK |
| FAM/SYBR® Green | SYBR® Green | | | | | | | | | | |
| FAM/SYBR® Green | FAM | | Ct+, B | OK | OK | OK | OK | OK | OK | OK | OK |
| TET | TET | Ct+ | | Ct+, B | UNK | UNK | UNK | Ct (2%) | OK | OK | OK |
| HEX/JOE/VIC | HEX | OK | Ct+ | | | | UNK | Ct+, B | OK | OK | OK |
| HEX/JOE/VIC | J0E | OK | Ct+ | | | | UNK | Ct+, B | OK | OK | OK |
| HEX/JOE/VIC | VIC | OK | Ct+ | | | | UNK | Ct+, B | OK | OK | OK |
| СуЗ | Cy3 | OK | Ctx | Ctx | Ctx | Ctx | | UNK | UNK | UNK | OK |
| TAMRA | TAMRA | OK | OK | CT+ | UNK | UNK | UNK | | Ct+, B | Ct+, B | OK |
| ROX/Texas Red | ROX | OK | OK | OK | OK | OK | OK | Ct (2%) | | | OK |
| ROX/Texas Red | Texas Red | OK | OK | OK | OK | OK | OK | Ct (2%) | | | OK |

0K

OK

0K

B=some background

OK

OK

Ctx=>50% cross talk

0K

UNK=unknown