

SUPPLEMENT

Supplementary Table S1 – Lis of primers used in qPCR

A. Normalisation genes

gene	sequence 5' → 3'
<i>RPLP0</i>	F: TCGACAATGGCAGCATCTAC R: ATCCCGTCTCCACAGACAAGG
<i>PPIA</i>	F: CCAGGCTCGTGCCGTTTT R: TCTGTGAAAGCAGGAACCCT

B. Estrogen receptor, estrogen response genes and stem cell markers

gene	sequence 5' → 3'
<i>ESR1</i>	F: CCGGCTCCGCAAATGCTACGA R: AGCGGGCTTGGCCAAAGGTT
<i>GREB1a</i>	F: AACACGTGTGGTGACTGGAG R: GATTCGGTGCAAAAAGCCTGG
<i>PRa</i>	F: AACACGTGTGGTGACTGGAG R: GATTCGGTGCAAAAAGCCTGG
<i>ABCG2</i>	F: CGAGCGCACGCATCCTGAGA R: CGCGGGGAAGCCATTGGTGT
<i>CDH2</i>	F: GCGGAGATCCTACTGGACGGTT R: TTTCAAAGTCGATTGGTTTGACCACGG
<i>ERBB2</i>	F: CACCCAAGTGTGCACCGGCA R: GCACGTAGCCCTGCACCTCC

Supplementary Table S2 – List of primers used in Fluidigm qPCR

A. Normalisation genes

gene	sequence 5' → 3'
<i>RPLP0</i>	F: ATCACAGAGGAAACTCTGCATTCTCG R: GATAGAATGGGGTACTGATGCAACAGTT
<i>GAPDH</i>	F: GGGAAGGTGAAGGTCGGAGTCA R: TTGATGGCAACAATATCCACTTTACCAGA
<i>TBP</i>	F: TGTATCCACAGTGAATCTTGGTTGTAAA R: CGTGGCTCTCTTATCCTCATGATTAC
<i>POLR2A</i>	F: TGCTCCGTATTCGCATCATGAACA R: ATCTGTCAGCATGTTGGACTCGATG
<i>HPRT1</i>	F: GACACTGGCAAACAATGCAGA R: CGTGGGGTCCTTTTCACCAG
<i>PPIA</i>	F: AACGTGGTATAAAAAGGGGCGGG R: GTCGAAGAACACGGTGGGGTT

B. Stem cell markers

gene	sequence 5' → 3'
<i>SOX2</i>	F: CAGAGAAGAGAGTGTGTTTGCAAAAAGGGG R: GGCTTAAGCCTGGGGCTCAAA
<i>CXCR4</i>	F: TTGATGTGTGTCTAGGCAGGA R: GATTCACTACACGCTCTGGAATG
<i>CDH2</i>	F: GCGGAGATCCTACTGGACGGTT R: TTTCAAAGTCGATTGGTTTGACCACGG
<i>CD44</i>	F: GCTGACCTCTGCAAGGCTTTCAATAG R: CTTCTTCGACTGTTGACTGCAATGCA
<i>ABCG2</i>	F: TCGTTATTAGATGTCTTAGCTGCAA R: TTGTACCACGTAACCTGAATTACA

C. ABC transporters

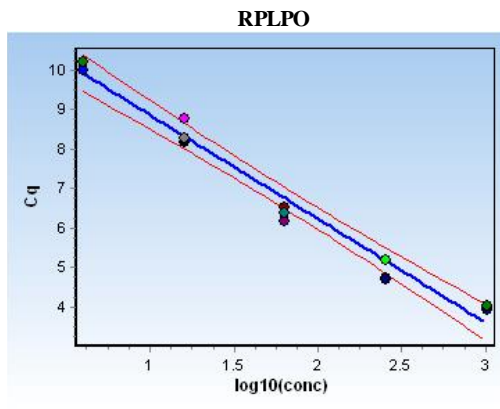
gene	primer sequence 5' → 3'
<i>ABCA1</i>	F: AGCCTGGAACCTTCAGCCCTGGATGTACA R: GCCAGGGTCTTTGGTGAGGGCGTTTAA
<i>ABCA2</i>	F: ATCATGGTGAACGGTCGCCTG R: GGTCCGCACCGTGATCATGTAG
<i>ABCA3</i>	F: ACCTACATCCCCTGATGGCCGGAGAAC R: TACTCCATGATGGCCCGGTCCACA
<i>ABCA4</i>	F: ACAGCAGACTGAAAGTCATGACCTCC R: GTTCCTTTCTGGCTGCAGGAACG
<i>ABCA5</i>	F: TTATCATGCTCACACTTAATAGTA R: ATAAAGATGATCTCCGTAAGC
<i>ABCA6</i>	F: CTATAAGCTGCCCGTGGCAGAC R: GTGCACTGAGAAAGGCTGTATTCTTCC
<i>ABCA7</i>	F: CTGTATGGCTGGTCGATCACAC R: TTTATGCAGGTGAGCACCACATAG

gene	primer sequence 5' → 3'
<i>ABCA8</i>	F: TCTTCGGGATTTCAGCGTTCT R: AACCAAGTGCCAAGAAAAGGGC
<i>ABCA9</i>	F: TGCCCTCAGGAGAATGCGCTGT R: TAACCGTGTGATGGCGATCATTGCGTC
<i>ABCA10</i>	F: ATGTCCACCCTCTATCTCGGGC R: CTGCTCCAAGGTAGCCTGAGAGA
<i>ABCA12</i>	F: ATGGTATGATCCAGAAGGCTATCACTCC R: TACATGATGATGCCATGTCGGGC
<i>ABCA13</i>	F: CAATAATGAAGGAGGTTTCGGGAA R: CATTTGAAGCTGCCGTTAACC
<i>ABCB1</i>	F: AAAGCGACTGAATGTTTCAGTGGCTCCGAG R: ACCCGGCTGTTGTCTCCATAGGCAA
<i>ABCB2</i>	F: ATCCTGGATGATGCCACCAGT R: GAGAAGCACTGAGCGGGAGTA
<i>ABCB3</i>	F: CCTCAGCGCTGAAGCAGAAGTC R: ACAGTAAAGCCGCGTCCACCA
<i>ABCB4</i>	F: AGGCGGCAAAGAACGGAACAG R: AATACTCCAATCATTTTCACTGTCTTCGT
<i>ABCB5</i>	F: GCAAGGGAAGCAAATGCGTA R: TGCATCCTCTGTTTCTGCC
<i>ABCB6</i>	F: GCTCTGGCTGCATCCGAATA R: TTGGGGCACAACCTCCAATGT
<i>ABCB7</i>	F: ATCCGGCCTTTAGTCTCTGTTAGCGG R: CTCTGGAATCTGCTGGTAGGCTCGAG
<i>ABCB8</i>	F: GTGCATTTATTTCCGGTCCGGG R: CTGCGGTAGCCATCAGAGTA
<i>ABCB9</i>	F: GCCTCCTTCTTCCTCATCGTG R: TTTCTGGATGACGATGCCATCAA
<i>ABCB10</i>	F: ATCATTGCTGTAATTTATGGGCG R: ATTTCCAATACGTTCCCTCAGCTA
<i>ABCB11</i>	F: GCTACCAGGATAGTTTAAGGGCTTC R: GATCTACAACAGCTAATGGAGGTTTCG
<i>ABCC1</i>	F: TCTCAGATCGCTCACCCCTGTTCTCG R: CTGTGATCCACCAGAAGGTGATCCTCGAC
<i>ABCC2</i>	F: TTGTGAACAGGTTTGCCGGCGATA R: TGGCCATGCAGATCATGACAAGGG
<i>ABCC3</i>	F: GGAGAAGGACCTCTGGTCCCTAAAGGAA R: CCTTGTGTCGTGCCGTCTGCTTTTC
<i>ABCC4</i>	F: CAAGATGCTGCCCGTGTACCA R: AATTTTAAACAAGGGATTGAGCCACCAGA
<i>ABCC5</i>	F: ATCATCCCCAGTCCTGGGTATAG R: CAAGGCATCTTGGCATTCCAAC
<i>ABCC6</i>	F: ACAAGTGTGCTGACCGAGGCGA R: ATGAGGATCTGGGTCTTCCGGAGAAGG
<i>ABCC7</i>	F: ACTGGTGCATACTCTAATCACAG R: TATTAAGAATCCCACCTGCTTTCA
<i>ABCC8</i>	F: TTCATCCAGAAGTACTTCCGGG R: TGAGTCCTTCTACGGTTTCGG
<i>ABCC9</i>	F: ATGATTGTGGGCCAAGTAGGA R: TTACATTGCTCCAGTGAACCTTTTCC
<i>ABCC10</i>	F: GGGAGAAGGGTGTACCCCTTAG R: CCAGAGGGTTCATCGAGGAGATAGA

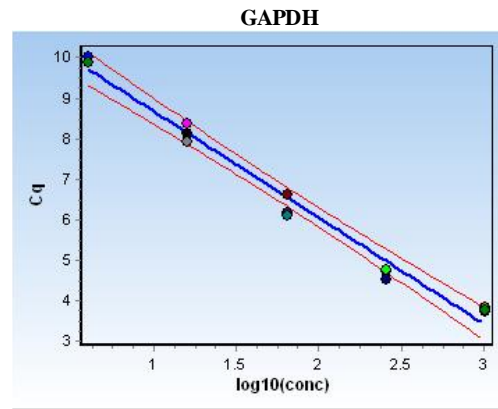
gene	primer sequence 5' → 3'
<i>ABCC11</i>	F: TGGATCGTCAGCGGGAACATC R: CAGAAGTTCAGGTCCCGATTGAG
<i>ABCC12</i>	F: TCCTTTGCAGAAAGATATGACCC R: GAAAATGTGGCGAAGGAGAGTA
<i>ABCC13</i>	F: ATCAAGAAACCATCTCTACTCTATGC R: CTTCAATTATGAGTGGGCTAGTGAA
<i>ABCD1</i>	F: CCAGCGCATGTTCTACATCCCGCAGAG R: CTTTGCATGTCCTCCACTGAGTCCGGGTA
<i>ABCD2</i>	F: AAATGTTCCCATTAATTACACCAGCAGG R: AAGAGAGAACTTTTCCCACAACCATTG
<i>ABCD3</i>	F: CTTCAAGCAAGTACTTGACGGCGCGAAAC R: GGTTTCCACTTTTCTTACCGTGCAGGCC
<i>ABCD4</i>	F: GAAGTCACAGGACTGCGAGA R: GAGATGGAGACCCGCTCAAG
<i>ABCE1</i>	F: TAGGACCACGCTCGACGTCGGAGAAAAG R: TTGTTCAACGCCGTTGGCGAAGCC
<i>ABCF1</i>	F: AATGCAGACCTGTACATTGTAGCCGGCCG R: GATGCTCAGGGCTCGGTTGGCAATGTG
<i>ABCF2</i>	F: AATTGACCTTGACACACGAGTGGCTC R: TTTCGGATCATGCCATCTGTGGGTAGTA
<i>ABCF3</i>	F: TTCGCTACAATGCCAACAGG R: TTCCTTGTCCACAGGCTTCAG
<i>ABCG1</i>	F: GAAGGTGTCCTGCTACATCATGC R: AAGCTTCAGATGTGCCGACAC
<i>ABCG2</i>	F: TCGTTATTAGATGTCTTAGCTGCAA R: TTGTACCACGTAACCTGAATTACA
<i>ABCG4</i>	F: CTGGTACAGCCTCAAAGCGT R: GCCCGTCATCCAGTACACAA
<i>ABCG5</i>	F: TGCTTCTCCTACGTCCTGCAGA R: CTTCTGGAAGGAGCCGGGATTG
<i>ABCG8</i>	F: AGAGGAGAGAGGGCTGCCGAAA R: AGGTGAAGTACAGGCTGTTGTCACTTTCA

Supplementary Fig. S1 – Standard curves

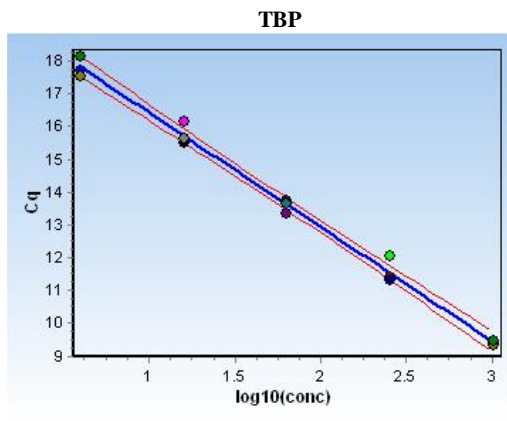
A. Normalisation genes



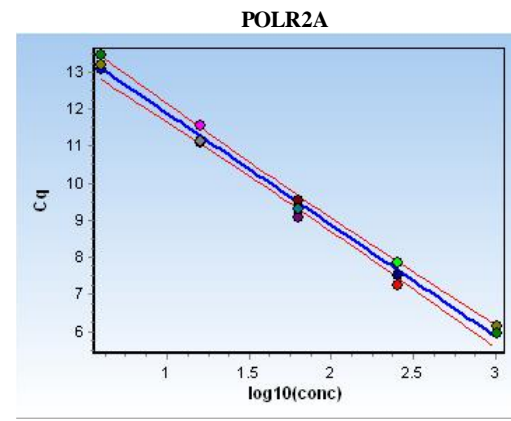
EFF 1.40495 R2 0.97611



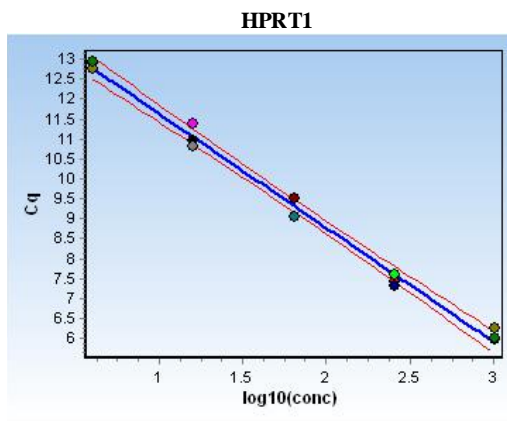
EFF 1.41301 R2 0.98162



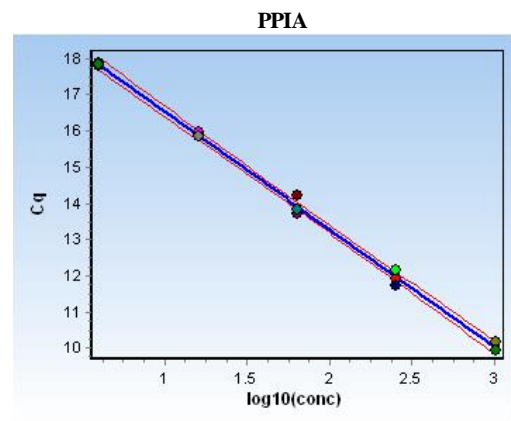
EFF 0.93594 R2 0.99371



EFF 1.145 R2 0.99181

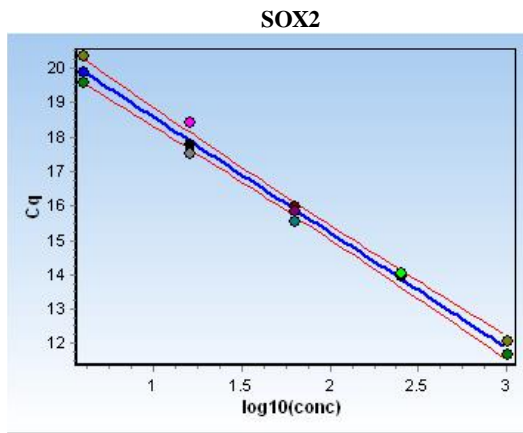


EFF 1.24211 R2 0.99278

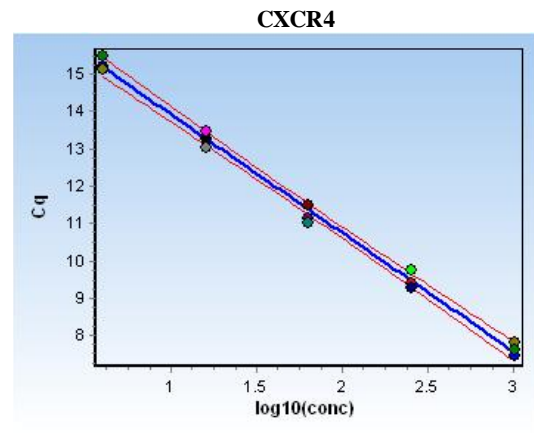


EFF 1.02905 R2 0.9975

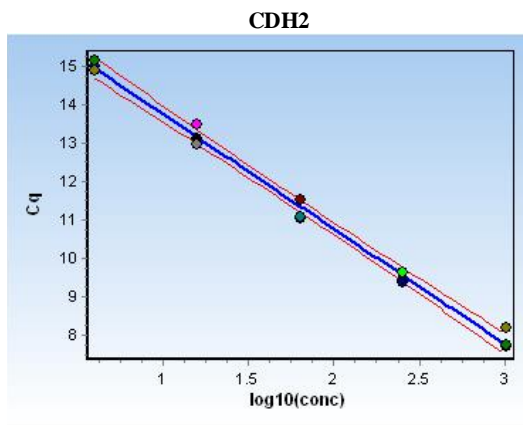
B. Stem cell markers



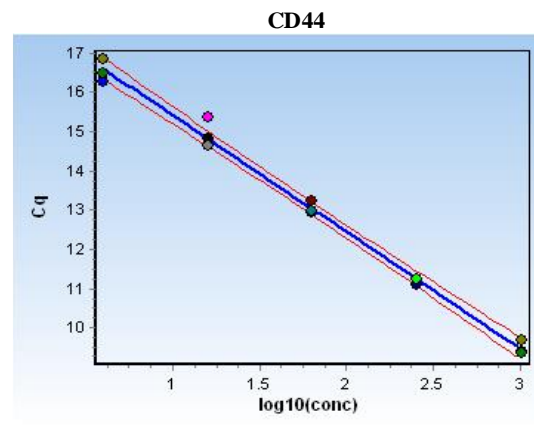
EFF 0.99037 R2 0.99159



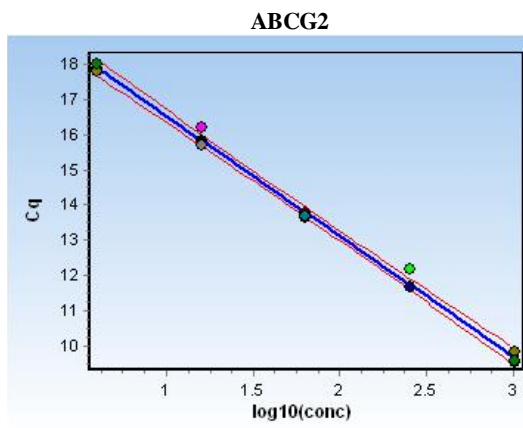
EFF 1.07127 R2 0.99484



EFF 1.15735 R2 0.99359

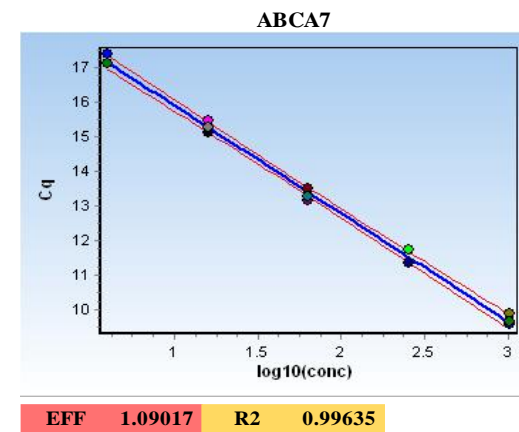
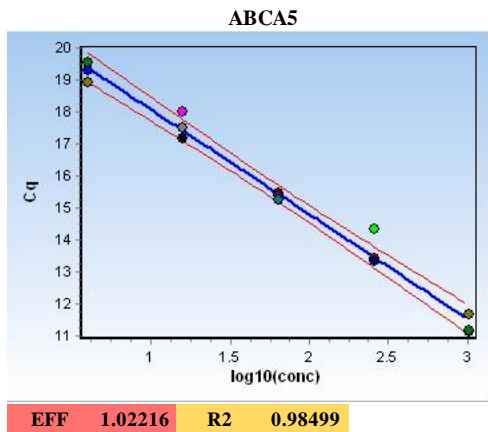
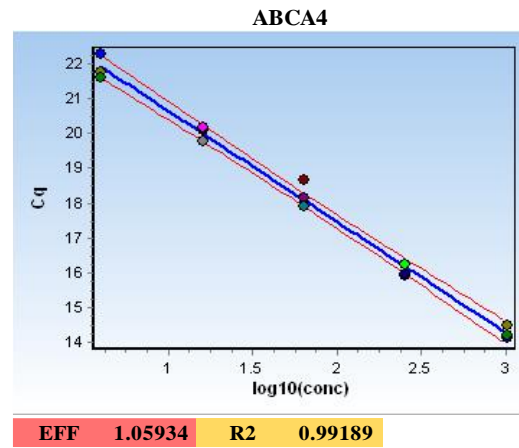
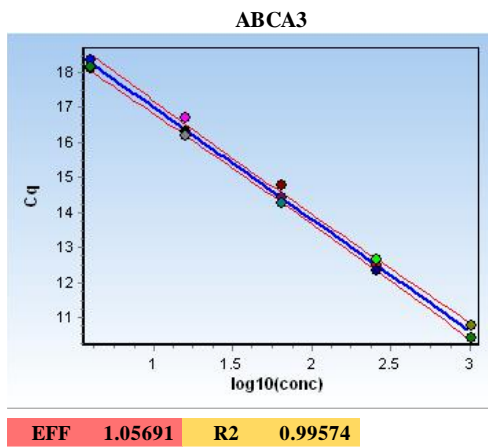
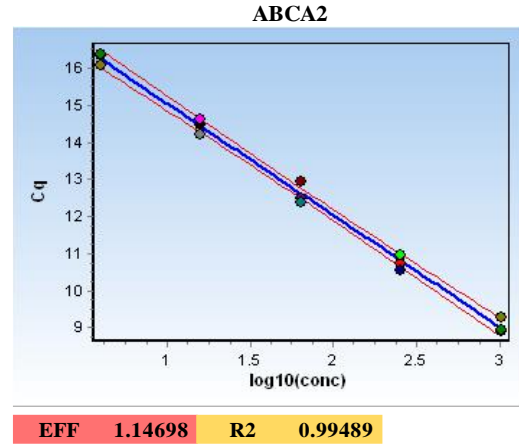
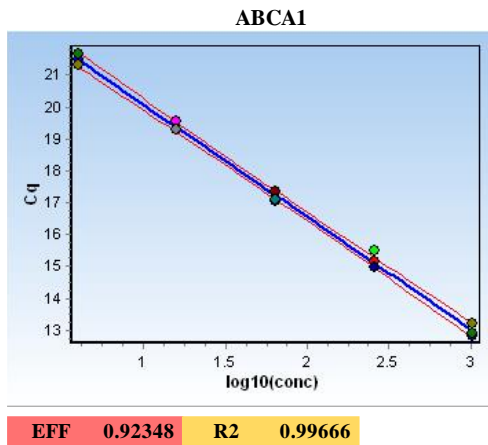


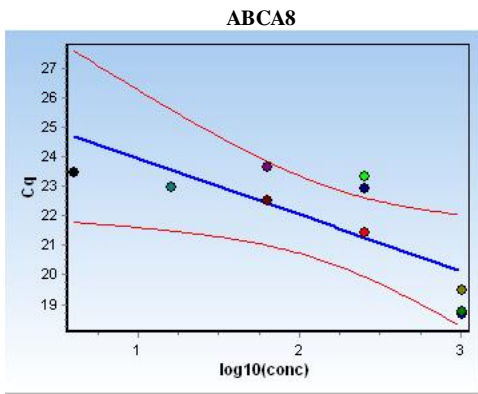
EFF 1.17034 R2 0.99325



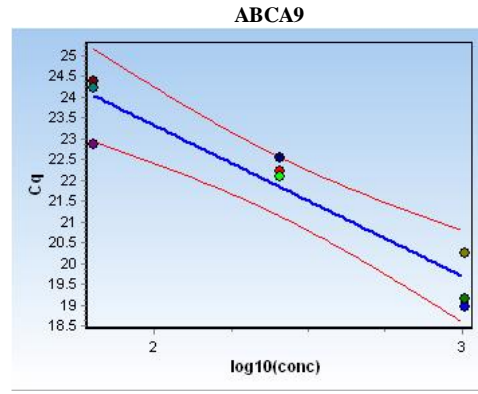
EFF 0.96224 R2 0.99634

C. ABC transporters

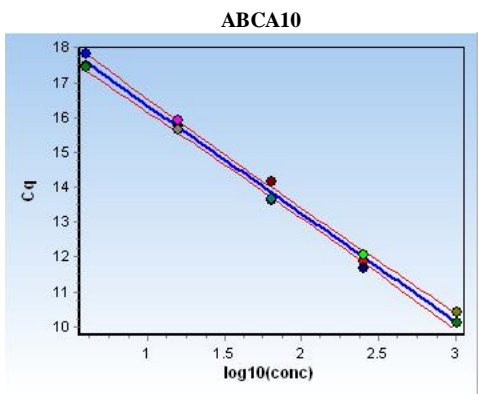




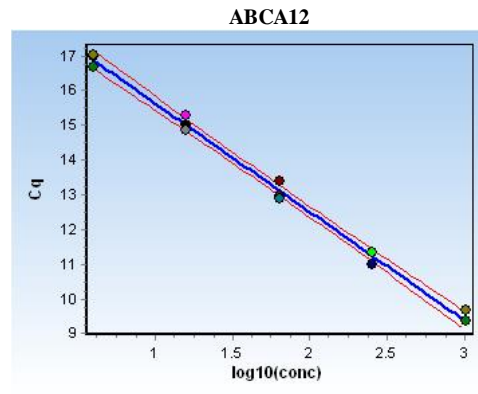
EFF 2.3745 R2 0.5902



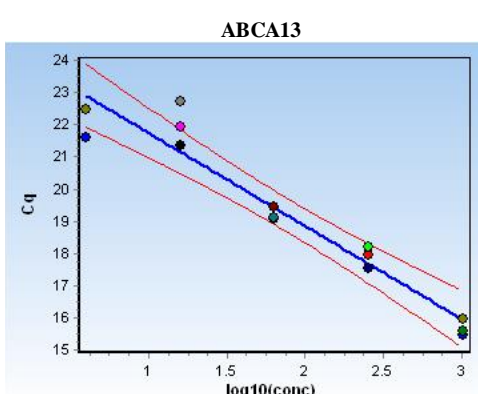
EFF 0.88616 R2 0.89583



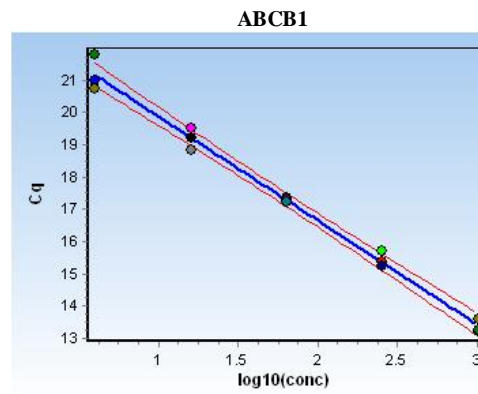
EFF 1.10366 R2 0.9952



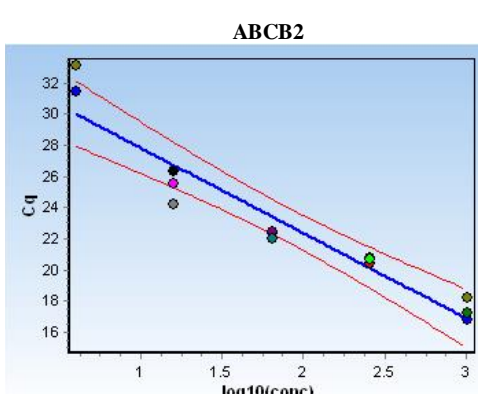
EFF 1.09001 R2 0.9946



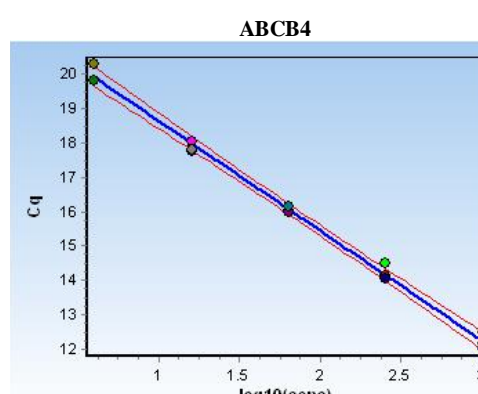
EFF 1.22039 R2 0.92953



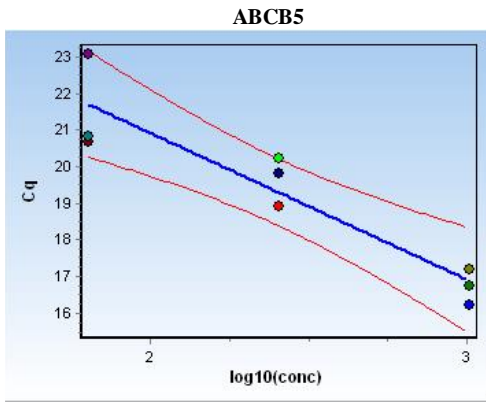
EFF 1.04394 R2 0.99035



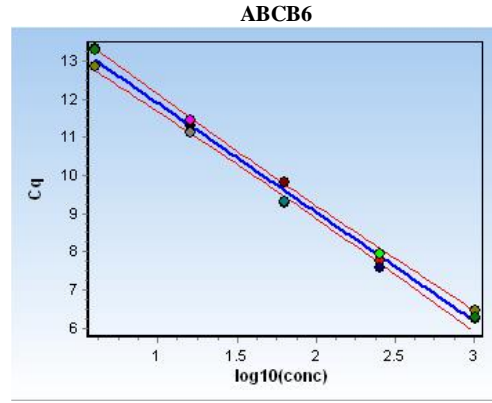
EFF 0.52365 R2 0.91192



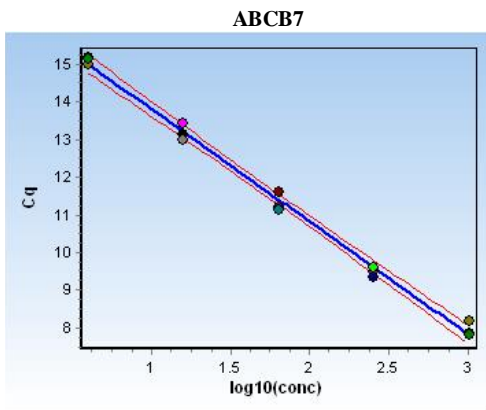
EFF 1.05966 R2 0.99467



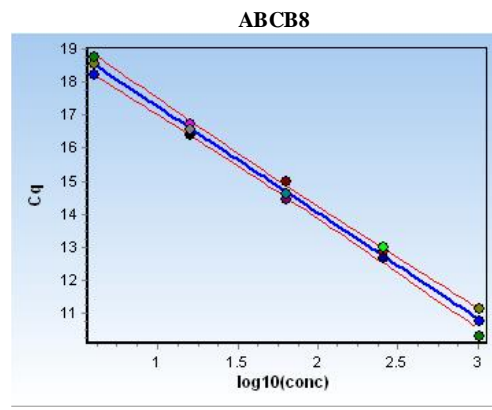
EFF 0.77803 R2 0.86258



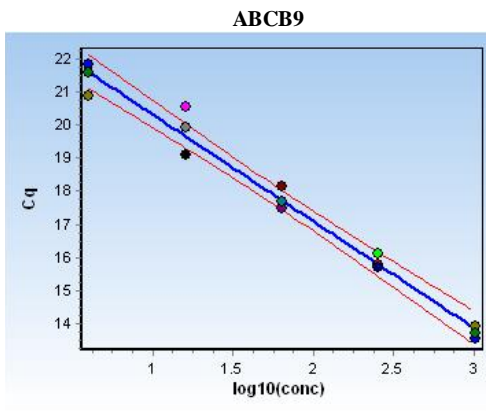
EFF 1.24124 R2 0.9923



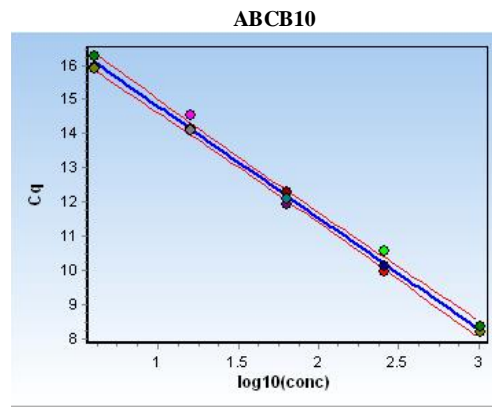
EFF 1.15846 R2 0.99466



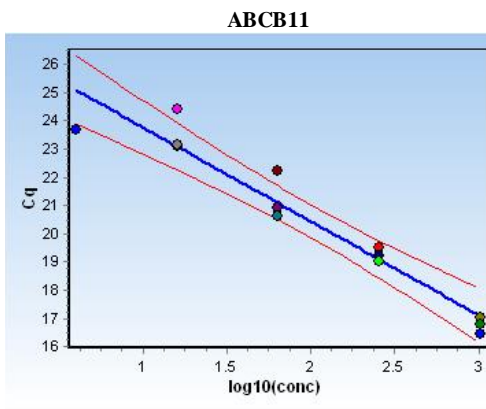
EFF 1.05706 R2 0.99256



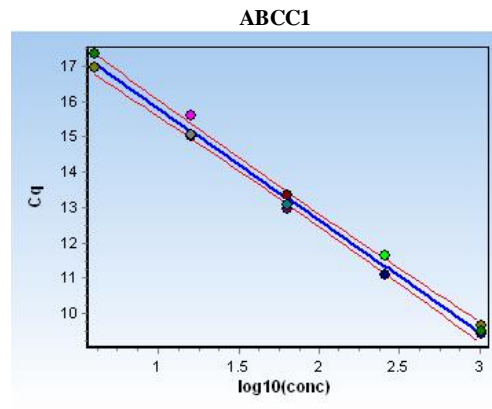
EFF 1.04584 R2 0.98086



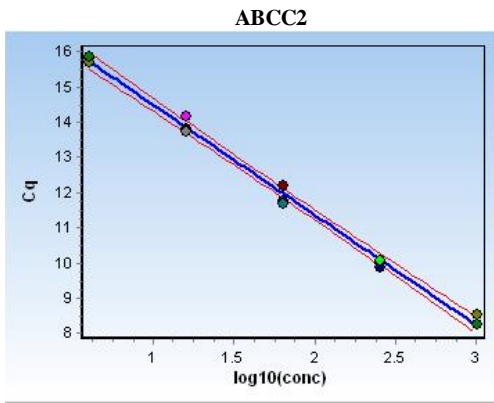
EFF 1.02837 R2 0.99532



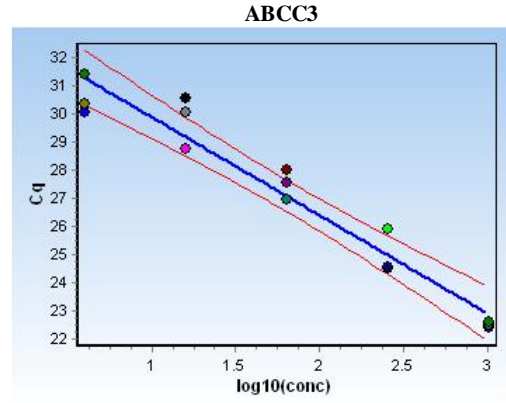
EFF 0.99802 R2 0.93221



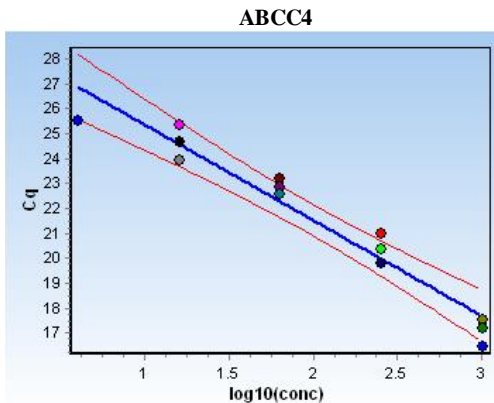
EFF 1.07453 R2 0.99333



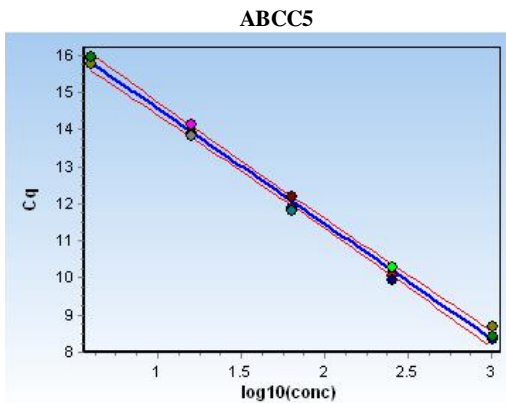
EFF 1.09116 **R2** 0.99539



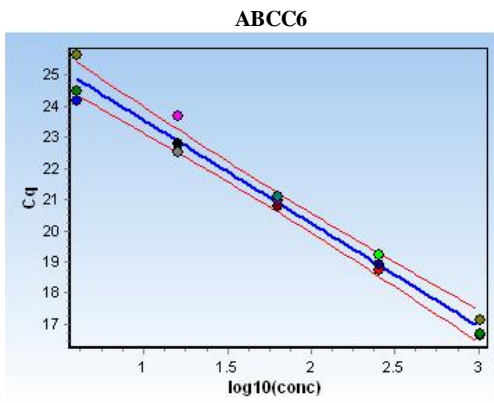
EFF 0.93079 **R2** 0.94242



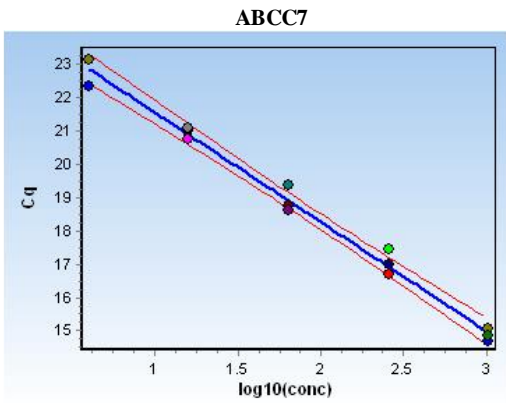
EFF 0.82779 **R2** 0.94003



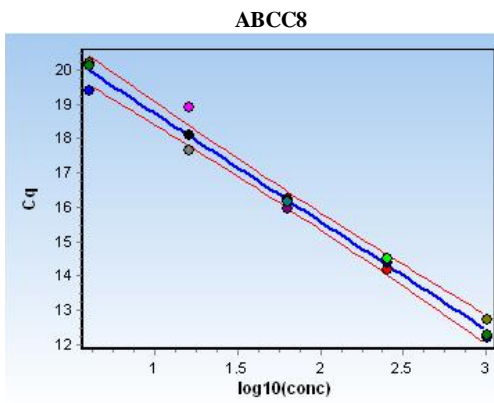
EFF 1.10005 **R2** 0.99592



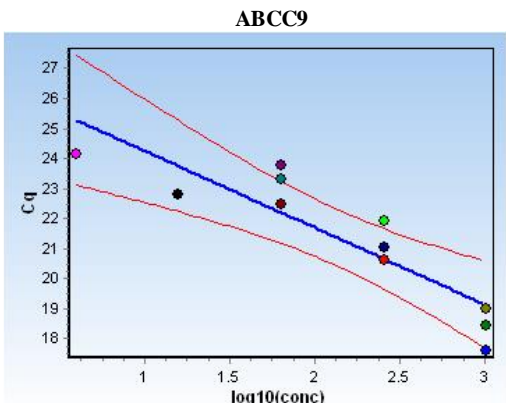
EFF 1.00586 **R2** 0.98047



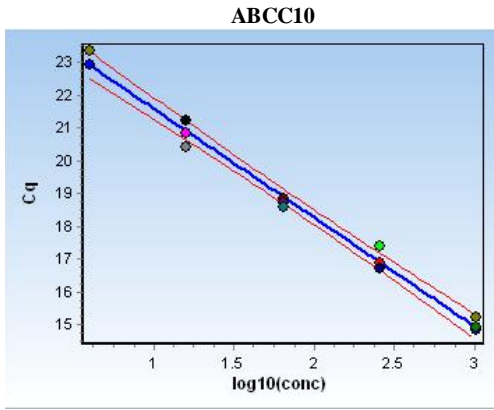
EFF 1.0145 **R2** 0.98823



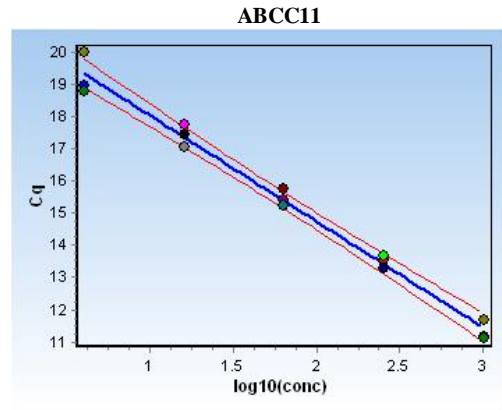
EFF 1.08228 **R2** 0.98601



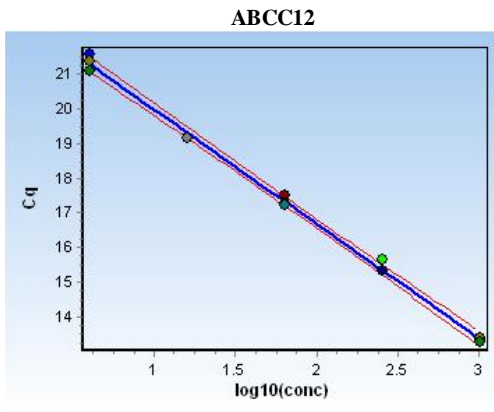
EFF 1.4626 **R2** 0.79318



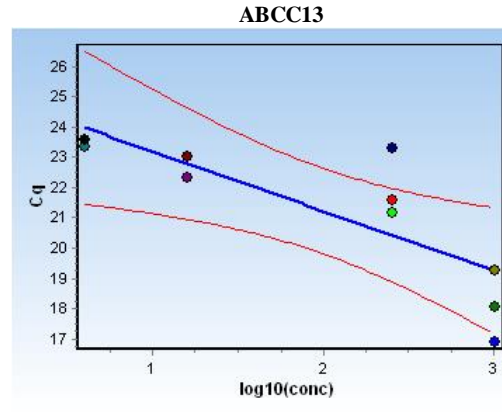
EFF 1.00452 R2 0.98954



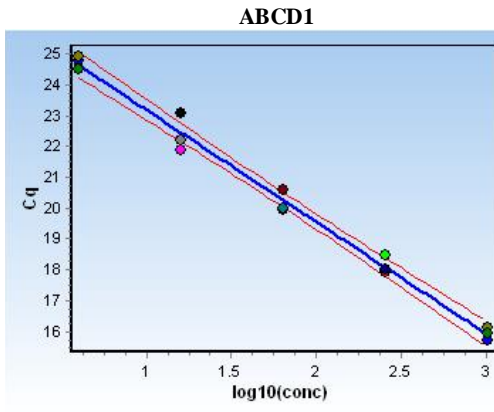
EFF 1.01407 R2 0.98589



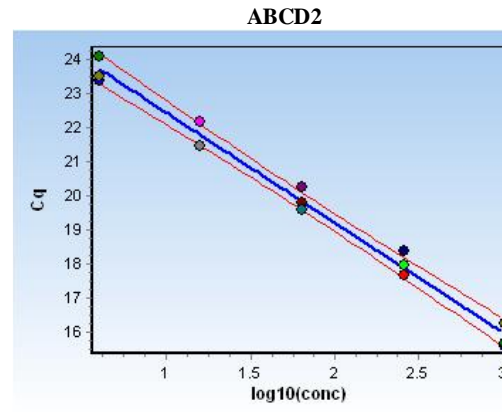
EFF 1.01738 R2 0.99689



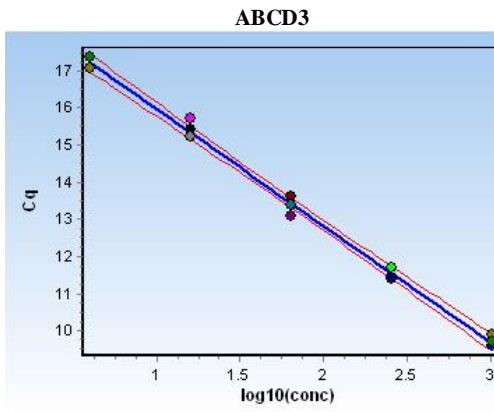
EFF 2.22996 R2 0.65415



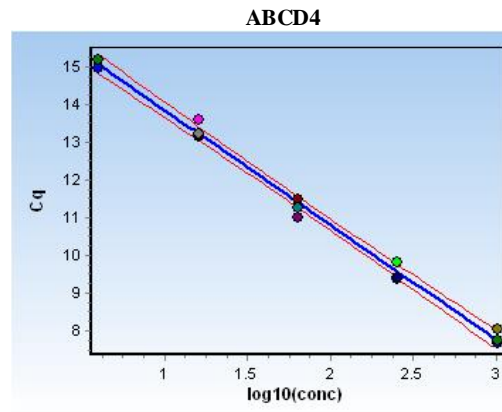
EFF 0.88525 R2 0.98972



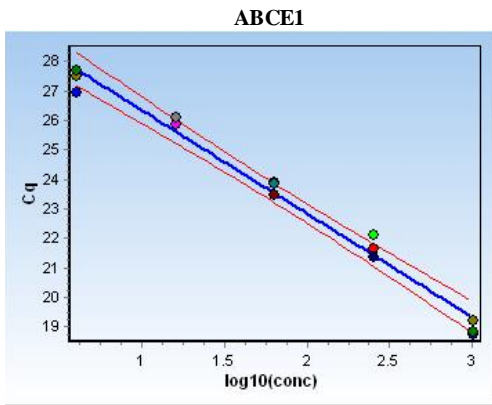
EFF 1.04324 R2 0.98736



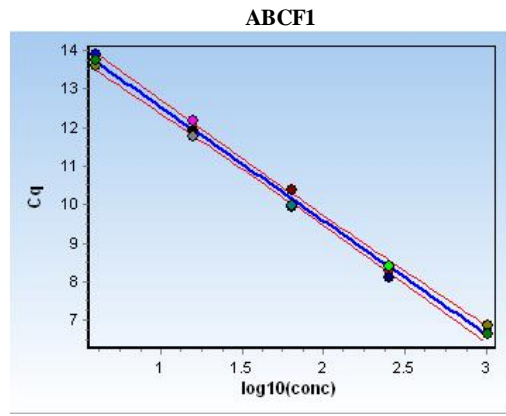
EFF 1.09165 R2 0.99546



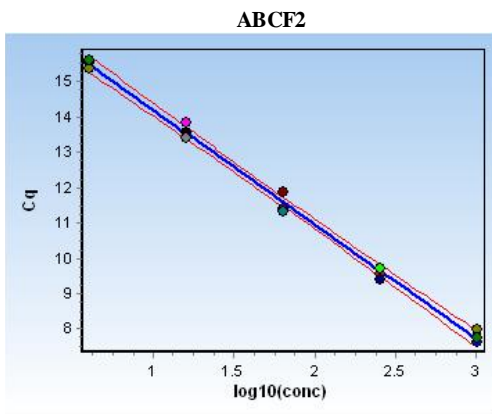
EFF 1.13288 R2 0.9945



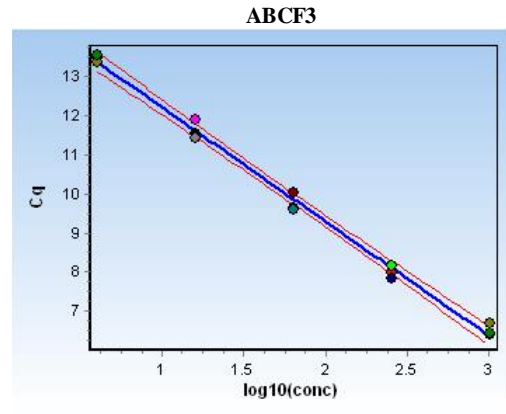
EFF 0.93129 R2 0.98278



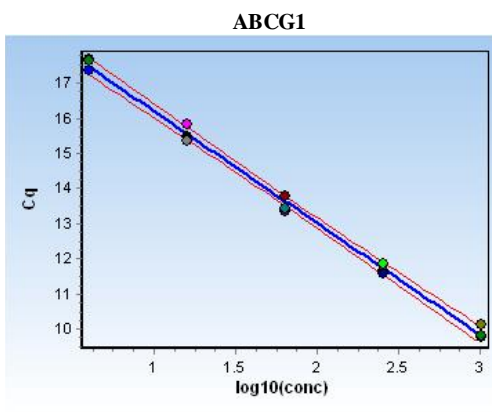
EFF 1.18478 R2 0.9956



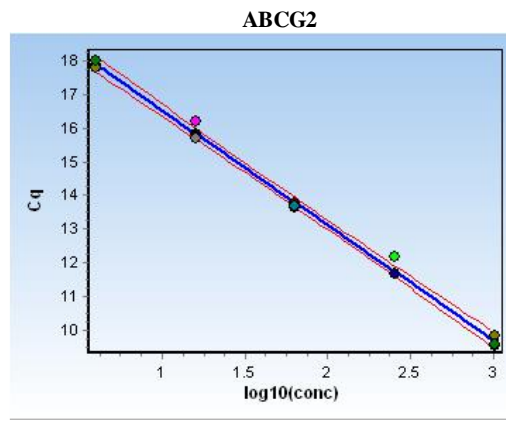
EFF 1.03948 R2 0.99587



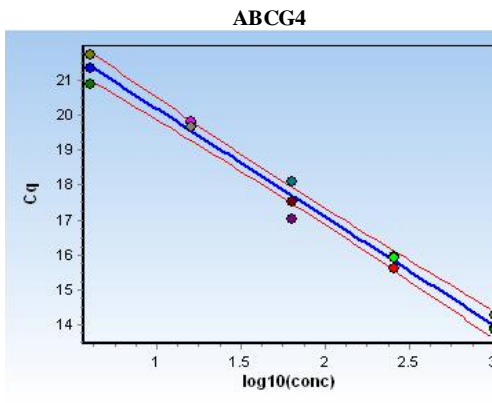
EFF 1.20425 R2 0.99441



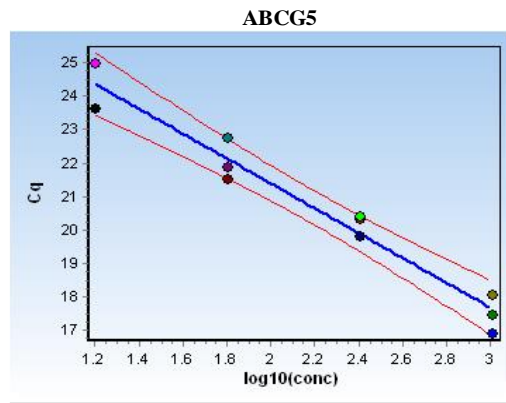
EFF 1.06149 R2 0.99543



EFF 0.96224 R2 0.99634

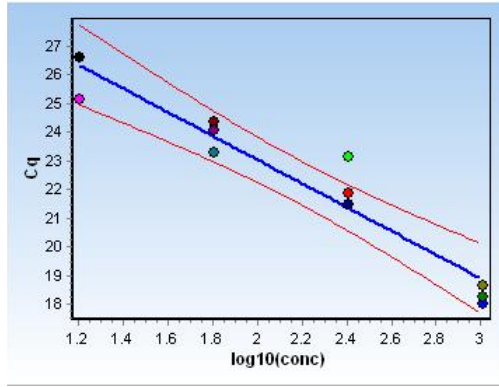


EFF 1.11253 R2 0.98693



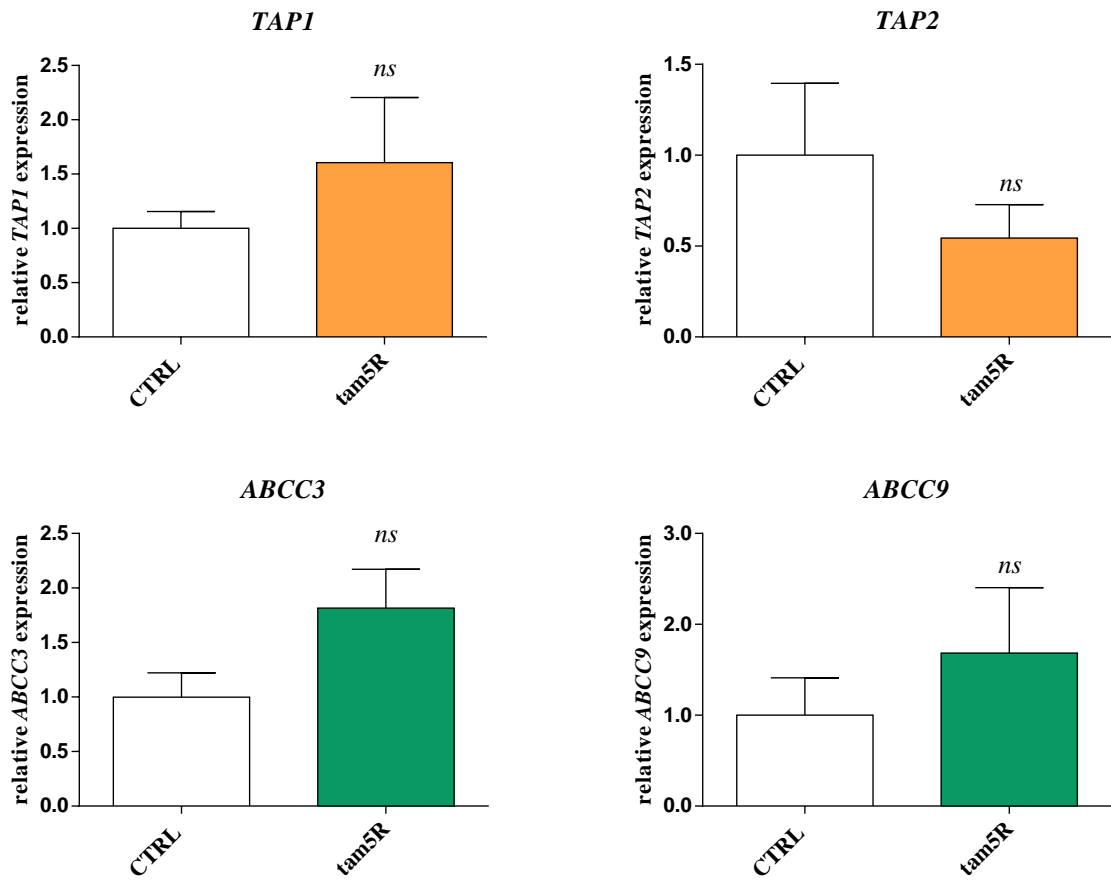
EFF 0.85814 R2 0.95444

ABCG8

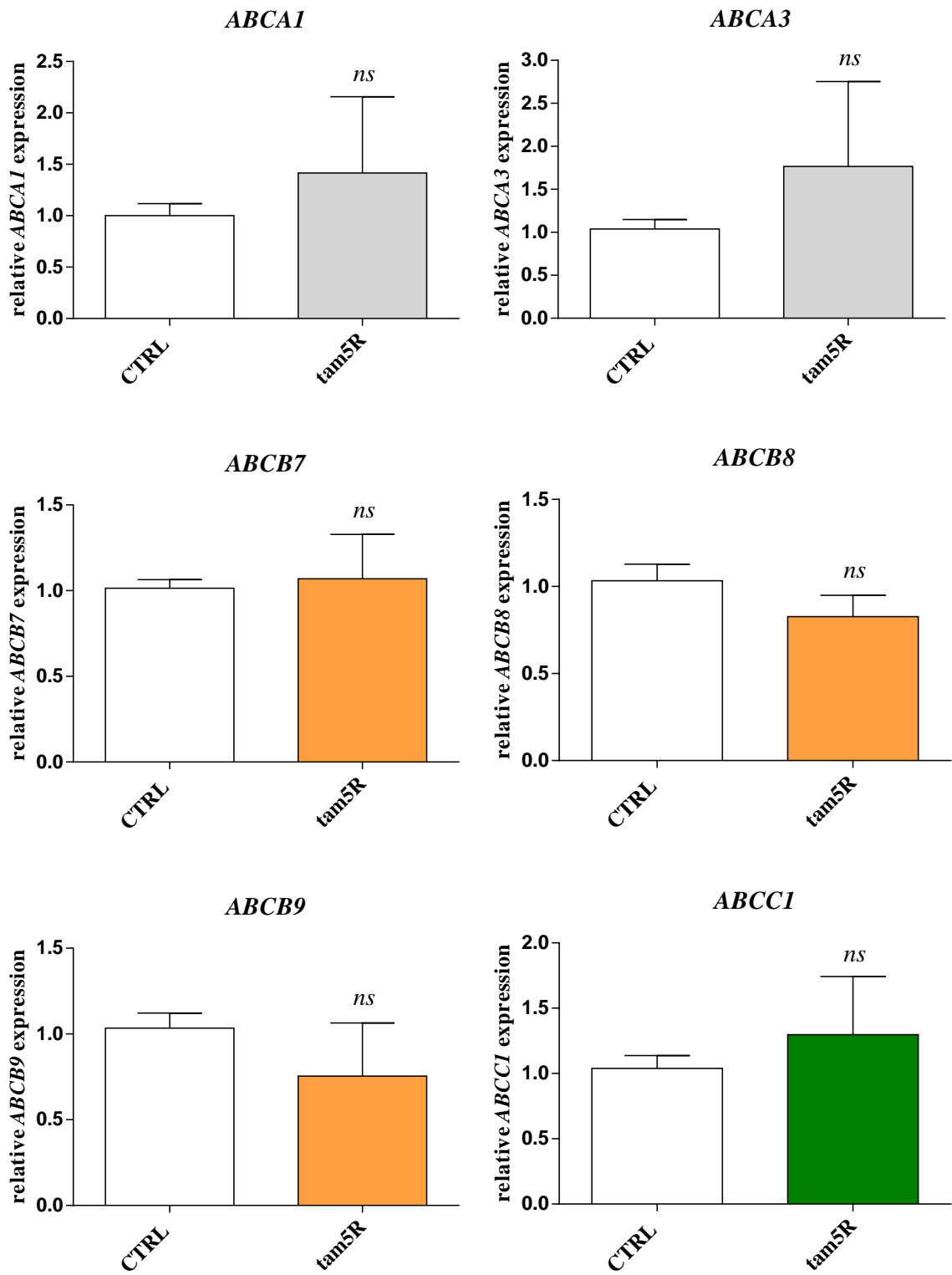


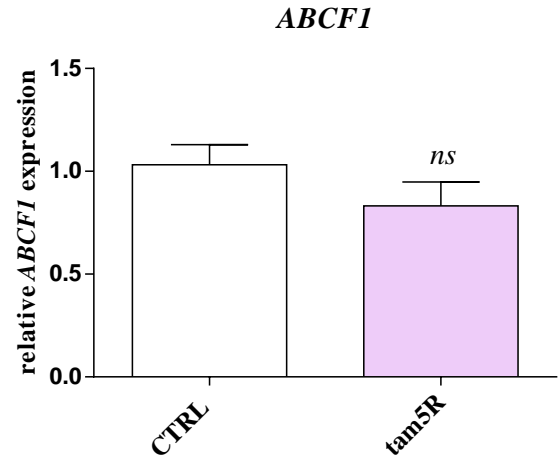
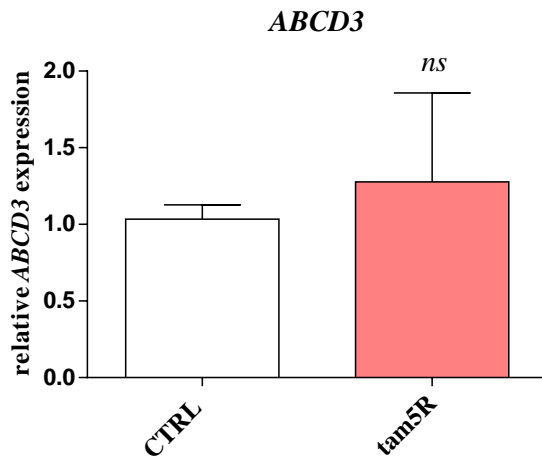
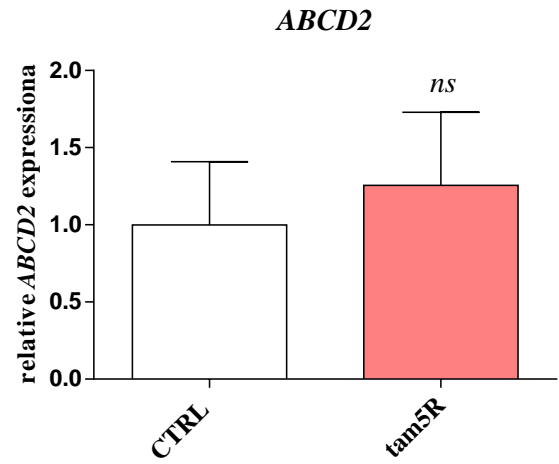
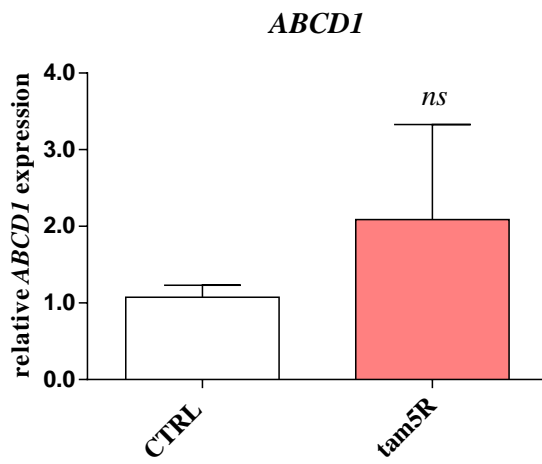
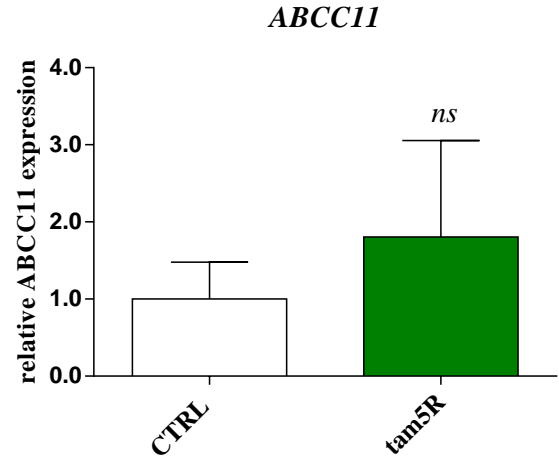
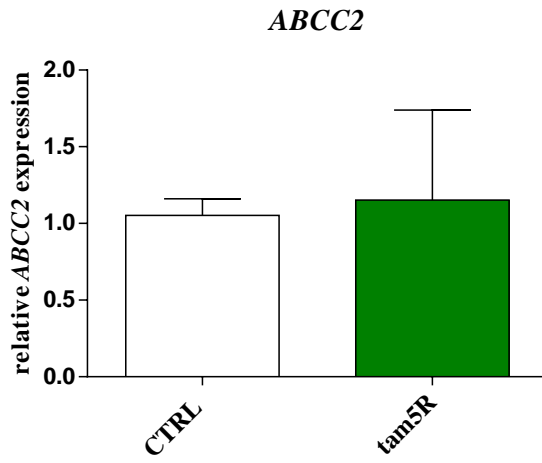
EFF 0.74588 R2 0.92047

Supplementary Fig. S2 – Statistically not significant results after NuPCR



Supplementary Fig. S3 – Statistically not significant results after including additional samples after Fluidigm qPCR





ABCG4

