**TABLE 1: Sequence of fluorescently labeled oligonucleotides for Xist RNA FISH**

Xp1, ggtaagtatccaaaaccccgttgg

Xp2, cgatcagcagcaacagtacacg

Xp3, gcaattggttgcttttatccagtcc

Xp4, cgcaacaccgcacactaatacg

Xp5, gccatcttagacacattcaagagcat

Xp6, cacacgtgaagtaccaagcgaaac

Xp7, gccacgtatagagcactgtaagagactatg

Xp8, caaagcacactatcagacgtgtcg

Xp9, ggagaatctagatgccataaaggcaag

Xp10, tgatggacactgcattttagcactg

Xp11, ggacactgcattttagcaatacgattc

Xp12, gtgatgggcactgcattttagc

Xp13, agatgggctatctcagtcttataggct

Xp14, ggaagtcagtatggagggggtatg

Xp15, tgggactgtgactactacagcaatga

Xp16, aagactcaattcctagtcaggattatccac

Xp17, gggctgtagctctatgacagtgcttt

Xp18, gtcttcaccagatgcagattactacagtg

Xp19, aatagtttgaggaaggggtttcaagtg

Xp20, gctgttcaggtttccttctgtagtga

Xp21, gcaagagatacaatggtccgaaaagt

Xp22, agcacttcgtacaaccctctttctg

Xp23, gaagagagcaggtcattcgtcagag

Xp24, gcaactgagacactgtagccatatgaag

Xp25, ttcctggaggaagaacggaaaga

Xp26, tgattagaaggcttaggtcatcttcca

Xp27, ttttgttcagagtagcgaggacttga

Xp28, aatagagcagaatggcttcctcgaa

Xp29, acattgcttgatcacgctgaagac

Xp30, gcaaggaagaaatagacacacaaagc

Xp31, ggaagaaatagatgtaacaaagaattagacaca

Xp32, cacttcagagccacttgaatcctg

Xp33, agtcacaggtgtcctgtagaaacagttc

Xp34, cctttatgggcaatggcaacaat

Xp35, ggcacatctgcatattgcttgtcta

Xp36, gcaactaagaccatgaacccacaa

Xp37, aaacacactggccttaagtatatggactg

Xp38, cattcatttgcacacatggaacaat

Xp39, tgggagacaatatttagcctccaggt

Xp40, cctagcaagggcactgttttgtaataa

Xp41, taacatttagcacactgccttgcac

Xp42, cagtgatctacactaggtccacctcaca

Xp43, ttatgttgaaggaatcttggccttg

Xp44, aagtgagagctgtagtctcaaggtgtga

Xp45, gtattcaacctctgaggcaaactgtg

Xp46, agattgtggaacttagatggctgtca

Xp47, tggaactgcattaaagtcccaacttag

Xp48, gaactcccagacctcttcaacctg