

The promoter region of the proto-oncogene MST1R contains the main features of G-quadruplexes formation

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Supplementary information

Reverse strand

5' TAAGTGCAAAGTAGTTCCACCGCAAGCAAAGAGCCCAGTGTCTGCCCCCTTCTCGCTG
CGAACCAGTCGGTAGTGGGGGGATGGGATGGGACGGCTCAGACTGGCTCACCTCTCTCCA
GGCCACACCATGCACATCCACCCACAGGCCGCTGAGAAAAAGGCGCCAAGACGCCAGGTG
AAGGTACAGGAGCCAGGCCTCCAAGGGCCGGAAGAGTCGGATGGGCGGAGGGCCTGGGCT
AGGCCAAGCCTTCTCGCGGCCCGCCCCACGGCCCGACTCCGCCCGCCAGCCCCGGCG
CCCTCGGGTCGGCTGAGCGCTAAGCGCCAGTGTACAGCGGCGGCTGGGCGGCGAGGTGAG
GCGGCTGGGGCGTTGCTGTCTGCTCCGACGGCGTCAGGTGCTCAGACCCGAGGGCCGG
GAAGGGATTGGGTTCACAGGAACCTGGGGCGGGGGTCCGCTATCTTGGGGCTGTCTGGG
ACCGCTGCTTAAATTTGGCCAGTCCAGACCTCGAGTCGGGGCCCCAGCCAGGCCCCACGC
CCAGGTCCAGGCCAGGCCGGTAGGGATCCTCTAGGGTCCAGCTCGCCTCGATGGAGCT
CC 3'

R1 R2 R3 R4 R5

Forward strand

5' GGAGCTCCATCGAGGCGAGCTGGGACCCTAGAGGATCCCTACCGGCCTGGGCCTGGACCT
GGGCGTGGGCCTGGCTGGGGGCGGACTCGAGGTCTGGACTGGGCCAAATTTAAGCAGCG
GTCCCGACAGCCCCAAGATAGCGGACCCCCGCCCCAGGTTCTGTGAAACCCAAATCCCT
TCCCGGCCCTCGGGTCTGAGCACCTGACGCCTGCGGACGCACGACAGCAACGCCCCAGCC
GCCTCACCTGCCGCCCCAGCCGCCGCTGTACACTGGCGCTTAGCGCTCAGCCGACCCGAG
GGCGCCGGGCTGGGCGGGCGGAGTCGGGCGCGGGGCGCGAGGAAGGCCTGGC
CTAGCCCAGGCCCTCCGCCATCCGACTCTTCCGGCCCTTGGAGGCCTGGCTCCTGTACC
TTCACCTGGCGTCTTGGCGCCTTTTCTCAGCGGCCTGTGGGTGGATGTGCATGGTGTGG
CCTGGAGAGAGGTGAGCCAGTCTGAGCCGTCCCATCCCATCCCCCACTACCGACTGGTT
CGCAGCGAGAAGGGGGGAGGACACTGGGCCTTTTGGCTTGGCGGTGGAAGTGTGCACT
TA 3'

F1 F2 F3 F4 F5

Figure S1. MST1R promoter region with G4 hunter software highest score sequences highlighted in color.

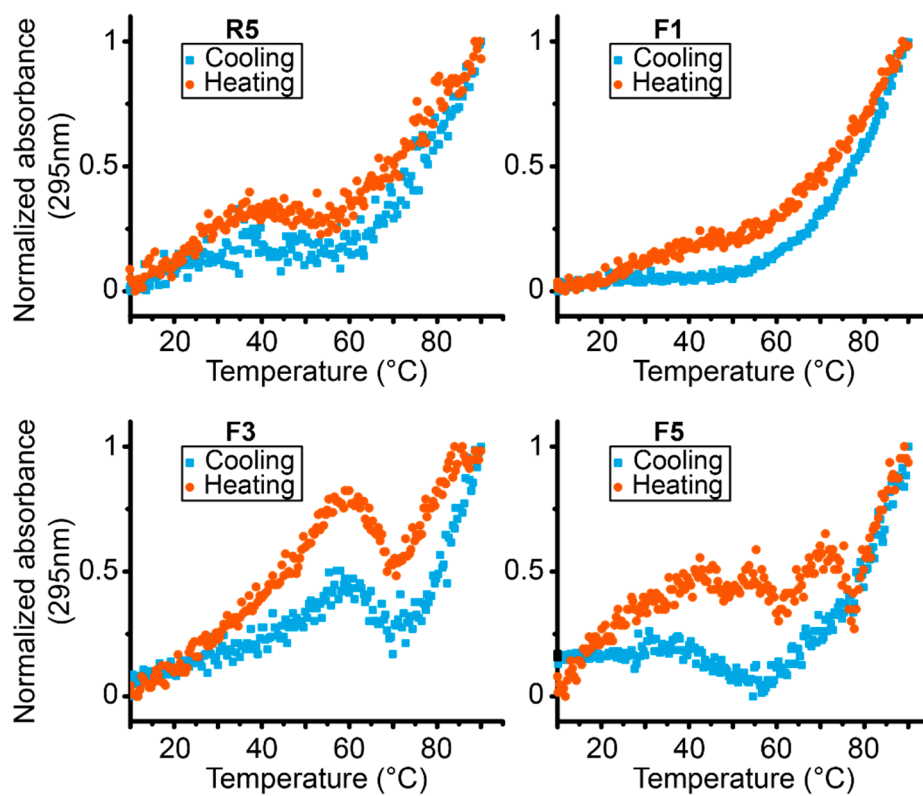


Figure S2. UV-melting spectra of reverse and forward MST1R G-quadruplexes non-forming sequences at 295 nm from 10°C to 90°C. All experiments were performed in buffer 1X (50 mM KCl; 10 mM KPi; pH 6.66).

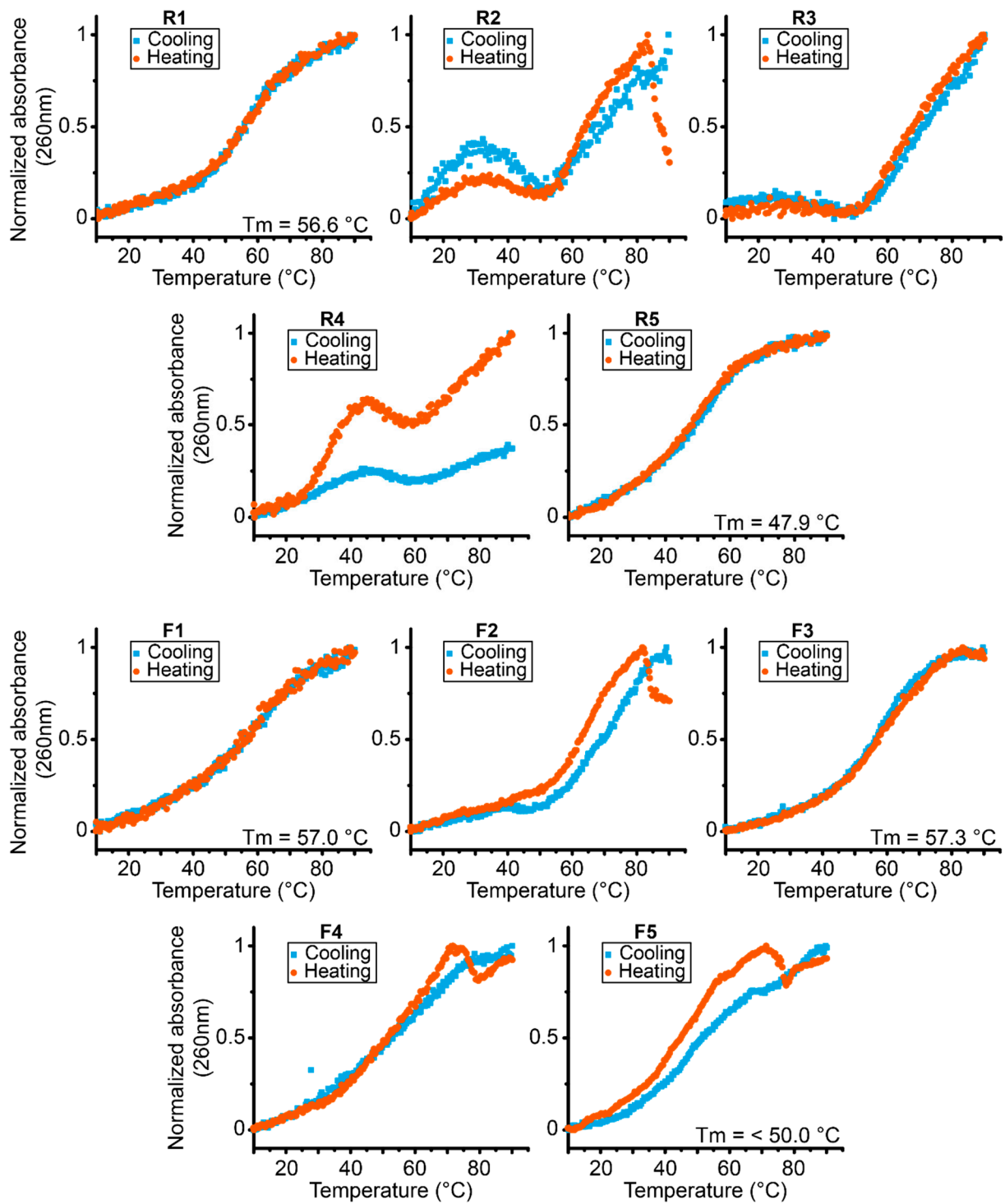


Figure S3. UV-melting spectra of reverse and forward MST1R sequences at 260 nm from 10°C to 90°C. All experiments were performed in buffer 1X (50 mM KCl; 10 mM KPi; pH 6.66).