```
ScerTLC1      --------AATAAAACTA-GAGAGGAAGATAGGTACCCTATGAAAATGTC-AATGGCTGT 50
SparTLC1      --------AATACA-CTA-CAAAGGAAGATAGGTAACCTATTAAAATGTC-AGCGGCTGT 49
SmikTLC1      AATAGGGGCATGCG-CTA-ATGAGGAAGATGCGTCGCCTATTAAAATGTCTGGCGGCTGT 58
SbayTLC1      GATTGTCGCATGTGCTCATGAGAGGAAGGTA-GTAACCTAATAATACGTC-AGCGACTGG 58
                        **      *    ****** *  **  ****  ** * ***    * ***

ScerTLC1      TGCGTTTGCTTAATCGTATTTTTTTTTTTTTCAGTCCGTGTTTTTTGTACATTCTACGTT 110
SparTLC1      TGCGTTTGCTTAGTTGT-----TTTTTTTTTTAGTATTTTTTTTTTGTACGTTTTCCGTT 104
SmikTLC1      TACATTTGCTTTCTAGCACT--TTTCTATTCTCGTTTCCTTTTTTTGTACCTTCCCCTTT 116
SbayTLC1      TATGTTTGCCTGCCCTT-----TTTTTATTTTG----CTTGTCAATGTATTTTTTCCATT 109
              *   ***** *           *** * **          *   ****  **   * **
                                        5' template boundary
ScerTLC1      TGAGTTTTCCATCATGCAGGCCTCAGAAATTTGGTAGGCACTCGATGGTGAAGAGATAGT 170
SparTLC1      TGAATTTTCTATCATGCAAGCCTCAGAGATTTGGTAGATGCTTAATGATGTAAAGGTTGC 164
SmikTLC1      TGAATTTTCCATCGTATAAGCCTCAGAAATTTGGTAGACACTTAATGATGAATAGGTTGG 176
SbayTLC1      TGAGTTTTCTGTTG-ATAAGCCTCAGAGTTTTGGTAGGCGCCTAGTGGTGGAATGGTTGG 168
              *** *****  *     * ********  ********   *    ** ** *  * * *

ScerTLC1      GTCGGATTTCGGATTGATCTTTCA-GTTGATAGCCTGCTGCTCTTTTCTTTTCCA----A 225
SparTLC1      GTTGAATTTTGGATTGTTCTCTCAAGTTAGCAGGCAGGTGCACTTTTCTCTTTTACG--A 222
SmikTLC1      GTTAGATTT-GATTTGAGATCTTGAGTCACCAGGCAGTCCCAATTTT---TTTTACG--A 230
SbayTLC1      GCTGGAATCGGAATTGAGATGTGATGTTAACGGGCCATCGTGCATCTTTTTTAAATTTTG 228
              *    * *  *  ***   * *   **     * *         * *   **  *

ScerTLC1      AGAATTTCGAGTATGCTGGTGTCAGTGTAGATGCTT-GTGTGTGCGCA-ATTTGTGGTTT 283
SparTLC1      AGGACTTCGAGTGCACTGGGGTCAGCATAGATACTT-GTGTGTACGTATATTTGTGGTTT 281
SmikTLC1      AATATTAGGAGTGTGCTGATGTCAGCATAGATGATG-TATTATACATG-TTTTGTGTGGT 288
SbayTLC1      AGCAATTTGAGTACGCTAGTGCCACTATGCATGTTTCATGTATACATGTATGCGCGGTTT 288
              *  * *  ****   **   * **   *  **  *     * * *     *  * *   *
                                     Ku-binding hairpin
ScerTLC1      TTTATTGTGTTTCTACTTATAGATGGCTA-----------------AAATCTGAGTTTAG 326
SparTLC1      TT-GTTATTTTTCTACTTATAGATGGCTA-----------------AAATCTGAGTTTGA 323
SmikTLC1      TT-GCTATATTTCTACTTATAGATGGCTA-----------------AAATCTGAGTTTGA 330
SbayTLC1      CT-GTTCTTGTCGTACTTATAGATCGCTACGTTATTTCAATTTTGAAAATCTGAGTCCTG 347
               *   * *  *  *********** ****                 **********

ScerTLC1      AAAATGCA-AACCGTAAATTCTTAAACACTGCTATTGCATTTAGTTGCTAAAGCAGTGTT 385
SparTLC1      AAGATGGC-CACCATAAATTCTTAAA-AGTGGTATCGCATTTAGC--------------- 366
SmikTLC1      GAGCAGCA-TGCCACAGATGCTTGGATTTTACTATTGGATTTTGCTGCCGGAATAGGGCT 389
SbayTLC1      GGAGTGCGGAGCCATGCATACATGTACTTTATTGTTGCATAGTATTGCTAGAGTACACTT 407
                   *     **    ** * *  *   *  * * * **

ScerTLC1      TTTGAACTTATTCCTGTTATTCCTTCTTCGTACCGATCCTCTTCTC-GACCTAACCTTTT 444
SparTLC1      ---------------------CCCCCTTCGTACCAATTCTGTTTTC-GTCTCAAGCTCTT 404
SmikTLC1      TTCGGGACACTTATT----CCTTTGCTTAAGACCAACTCTGTTTTC-GCCTTTGCCCCTT 444
SbayTLC1      TCTCCATGATTGTCTG-----TCTTCTTTACACCAGTTCTGTTTTCTGTCTTAACCTCTT 462
                                     ***   ***    ** ** ** * *     *  **
                          3' boundary   TEMPLATE
ScerTLC1      AATTACCATGGG--AAGCCTACCATCACCACACCCACACACAAATGTTACAGCTAATTGT 502
SparTLC1      CATTACTACAGCGCAAGTCTACCATTACCACACCCACACACAGATACCACGGCTAAT-GT 463
SmikTLC1      CATCATTATACAAAATGTCTACCATTACCACACCCACACATTGATATTATGACTAATTGT 504
SbayTLC1      CACTATCATGGAAAGTTTCTACCATTACCACACCCACACACGAACATTAAGGCTAATCGT 522
               *  *  *          ******* **************   *    *   ***** **

ScerTLC1      TTATTAGCAAAGTTTGCACGAGTTCGCTGTTTATTTTTTTC-TCGTTTTCTTATACCTAG 561
SparTLC1      TTATTAGTTAAGTTTCCATGAGCTCACTCTTTATTCTTTTCCTCGTTTTCTTATACCTAG 523
SmikTLC1      TTATTAGCTAAGTTCCCATGG--CCACTTTTTACTTTTTTC-TCATTTTCTTATTTTTAT 561
SbayTLC1      T-ATTAGTTCAATCTCCATAGCCACACTCTTTTTTTCTTCC------------------- 562
              * *****   * *   **       * ** ***  *  ** *

ScerTLC1      TATTTTTTCTGACACTGTTTAAGGTGACAGAAAAAAA--GGAGTTTAAGTTAGATTTGCA 619
SparTLC1      TATGTTTTCTGGCGCTTTTTGAAGTGACAGAAAAAA---GGAGTTTAAATTAGATTTGCA 580
SmikTLC1      TATATTTTCTGTCACT-TCTGAAGTGACGGAAAAGA---GGAGTTTGAATTAGATTTGCA 617
SbayTLC1      AATATTTTCCGTCGCT-TTCCAAGTGACAGAAAAAAAAAGGAGTTTGAATTAGGCTTGCA 621
               ** ***** * * ** *   * ***** ***** *   ******* * ****  *****
                   Est1p-binding region                Est1p bulge
ScerTLC1      AA-CAGACGGTGCTAAG--CGCTGTCACTTT--ATGTCTATCTTATCGTTAACTCTGGAA 674
SparTLC1      AA-CGGACGGTACTAAA--TACCGTCACTTTT-ACGTCTAACTTATCGTTAACTCTGCAA 636
SmikTLC1      AAACGGGCGGTATCAAGAATACTGTCACTCTATATGTCTAATTTATCGTCAACTCTGCAA 677
SbayTLC1      AAAGGGACAATATATATGATACTGTCACTCCTAATGTCTAATTTATCGTCAACTCTGTAA 681
              **   * *  *    *     * ******    * *****  ******* ******* **

ScerTLC1      A--AAGAAAA-AGGAAAAAGAACGTCAGGGAACATGAGTATATATAGAA-ATGGTTTATT 730
SparTLC1      A--AAGAAAACAAGAAAAAGAAAATCAGTGAATAGGAGTATATATAGAA-ATGGTTTATT 693
SmikTLC1      A--AAGAAAATAGGAAGAAGAAAATAGGCGGATAAGAGTATATAGAGAA-ATGATTTATT 734
SbayTLC1      AGGAAGCAAGAAAGAGAAAGGTTGCTGGAAATAAAATTTGTACAAACAAGACGGTTTATT 741
              *  *** **  * **  ***       *     *    * ** * * ** * * ******
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ScerTLC1      CTAGTTTTTTCCGT--------TTTTTCAGTAGATTTTTGCCTTT-AAAAGAATAAATC- 780
SparTLC1      CTATTTTTTTTTGT--------TTTT-CAGTAGATTTTCGCCTTT-AAAAGAATAAATT- 742
SmikTLC1      CTATTTTTTTTTTTCTTTTTCGTTTTTCAGTAGATTTTTGCCTTTCGAGAGAATAAATT- 793
SbayTLC1      CTAGTTATTCCA----------TTTTTCAGTAGATTTTTGCCTTTTACTAGAGTCAATTT 791
              *** ** **             **** *********** ******    *** * ***
                     Est2p-binding region
ScerTLC1      --CCACTACAAAAAGGTAAAATAAAAAATCTATTCACTGAACTTACTGATGAAATTTCCA 838
SparTLC1      --CCATTAAAAAAAGGTAAAAAGAAAAATCTATTCACTGAACTTGCTGATAGAATTTGCA 800
SmikTLC1      --CCACTAAAAAGGGTTAAA--GAAAAATCTATTCACTGAACTTATTGATGAAAACTTTA 849
SbayTLC1      AACCAGTATAAAAGGTTCAAG-GAAAAATCTATTCACTGAACTTATC-ACGAAACCT-CA 848
                *** ** ***  * * **   ********************    *   **  *  *

ScerTLC1      AATGTGCCCCGTACATCGAACGATGTGACAGAG--AAAAATACGAGTAGGTAAATAAGCC 896
SparTLC1      AATGTGTCAAGTGCATC-AAGGAGAAGATAGAGG-AAAAACTCGATAAGGCAAACAAGCC 858
SmikTLC1      AATGCGTCAAGTACATCAAAAGAGGAAACAGAGGGAAAGAACCAGGTTGGCAAACAAGCA 909
SbayTLC1      AATGTGTCAGACGCATTAAA----AAGATAAATC-AAAAAAACG-GTATGCAAGCGAGTC 902
              **** * *     ***  **       * * *   *** *  *      * **   **

ScerTLC1      AAAAGGCAAGGGTGT-CCTT------------------TCTTAAGCATCGGTTAGGTTTG 937
SparTLC1      AAAAGGCAAGGATGC-CCTT------------------TCTCAAGCATTG-TTAGGATTA 898
SmikTLC1      AAAAGGCAAGGACGAACCTT------------------CCTCAAGCACTGAAT-GTTTTG 950
SbayTLC1      AAAAGACTGGTACTCCCTTCGTTTCCTGTCCCATTTTGCCTCAAGCATTGAATAAGTTTG 962
              ***** *  *      * *                     ** *****  *  *    **

ScerTLC1      CGGGCGATCAGTAACTG-----AACAATGACACAAGATC--AAGAACGTAATTTGAGATT 990
SparTLC1      TGGGCTACCAGTAAGCG-----AAAAATGATACAGGACAGAAAAAACATAATTCGAGATT 953
SmikTLC1      CGAGTGAATGGTAAGCGCGAGAAATGATGATACAAGTTG-AAAAGACATAATTTGAGATT 1009
SbayTLC1      CGAGCGAATAATAACCG----GGGAAATGATACAAGAGA--AAATCCATAATTTGGGATC 1016
               * *  *    ***  *         **** *** *     **   * ***** * ***

ScerTLC1      TTTCAAGATGG-TTTTTTTAGGTATC-TATTAAAACTACTTT-GATGA-TCAATACGGTA 1046
SparTLC1      TTTCAGGATGGATTTTTTTAGGTATC-TATCAAAACTATTCT-GATGA-TCAATACAGTA 1010
SmikTLC1      TTTCAAAATAGATTATTTTAGACATCCTACTTTAATCATTTTTGATGAATCAATACGGTA 1069
SbayTLC1      TTCTTGGATGGATTCATTTATGTATT-TATTTG-CTCATTTTTGAGGA-TCAATACAATA 1073
              **     ** * **  ****   **  **        * * * ** ** *******  **

ScerTLC1      TTTTTGTCGCATTATT-------------------------TTCCAAGCGGAAGGAACCG 1081
SparTLC1      TTTTTGTCGCATTACTATTACGGTAGTG--CAGACATTAGTTTCCAAGCGGAAGAAACTG 1068
SmikTLC1      TTTTTGTCGCTTCCTTATTACAGTAATG--CAGACATTAACTTCTGAGCGGAAGGAACCG 1127
SbayTLC1      TTCTTGTCCTATCCTTGCTAAAGTAAAGAACGGGCATTAATTTCTGAACGGAAAGAATTG 1133
              ** *****   *   *                          ***  * *****  **  *

ScerTLC1      TGTGTTCATTTTATGAATCTTGGTGTTGTA------------------TTCACAGCTACT 1123
SparTLC1      TGTGTTCATTTTATGGATTTTCGTGTTGTACGATTTTTTTCAGTTGCGTTAGCAACTACG 1128
SmikTLC1      TGTGTTCAGTTTATGGATTTTCGTGTAAAGCG--TTTTTTCGGTTGCGATAGCAGTTACT 1185
SbayTLC1      TGTGTTCACTTTATGG-TTTTCGCATTGTACA--TTTTTCAACTTGCATGAGCAGTCGGT 1190
              ******** ******  * ** *  *                          **
                                          Sm consensus site
ScerTLC1      T---CTCC-TAATGCCTT--CGATGCATTTAGATAATTTTTGGAAAC---ATTTTTTTTC 1174
SparTLC1      T---GCCCACAATACTTC--CGATGCATTTAGATAATTTTTGGAAAC---ATTTTTTT-C 1179
SmikTLC1      TACTTTCCTCGATGCCTT--TGATGCATTCAGATAATTTTTGGAA-C---ATTTTTTTTT 1239
SbayTLC1      T----TCCTCAATACTTTTTCGGTGCTTACGAATAATTTTTGGAACTTCAATTTTTTTTT 1246
              *     **   ** * *    * *** *    *************     ********

ScerTLC1      TTGATGTATATTTTT-TG-------TATTGTA----GAAATCGCGCGT-ACTGTACT-TG 1220
SparTLC1      TCGATATATATTTTTATA-------AACTGTA----GAAATTGCACGT-ACTTACTC-TG 1226
SmikTLC1      TAGGTGTGCACACTTGTA-------TAATGTA----GAGTACATACAT-ACTATGTCATG 1287
SbayTLC1      TTTTTTTCTTCTTTTTTAGCTACGCAGTTATACTAAGAAATCATATATCGATTACATACA 1306
              *   * *      ** *           * **    **         *   *

ScerTLC1      TATATCGCTTTATAAGCGCTTTT--AATTGATTGTTCATGACG----------------- 1261
SparTLC1      TACCTAGTTTTATAAGCGTTTTTT-AGTCGATTGTACGTGGCCTAGGTGTGCGGTACCCT 1285
SmikTLC1      TTTGTGGCATTACATGCCTTATTT-AGTTGATTGTACACAGGAATCCTTCCTAATGCATA 1346
SbayTLC1      TATATGGGTTCACAACCATTTCTGCACTTGGTTATACAGACGGCTAGTAACTGAAAGAAT 1366
              *   * *  * * *  *  *  *  * * * ** * *

ScerTLC1      -------------------
SparTLC1      TCTTAATGCATA------- 1297
SmikTLC1      -------------------
SbayTLC1      AAATAAGTATGCTGTTATA 1385
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