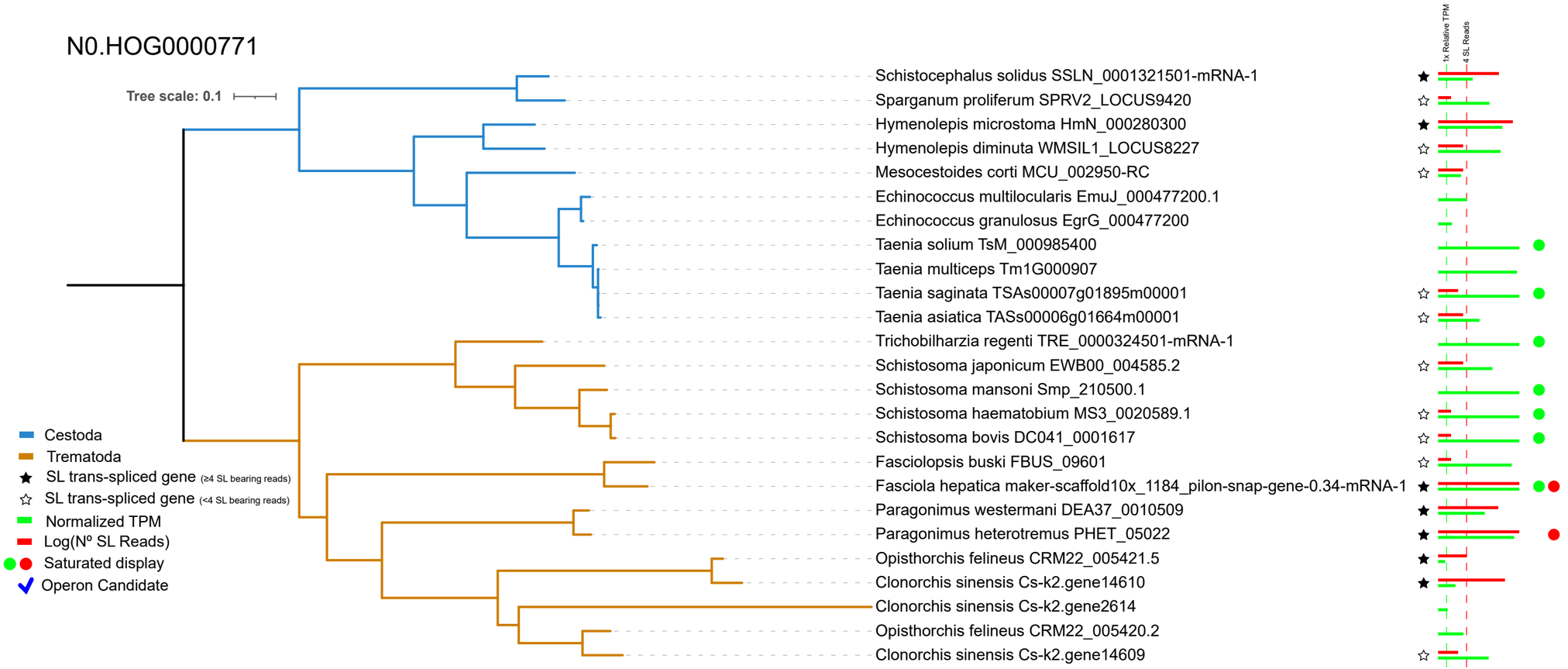
Supplementary File 5: Maximum Likelihood phylogenetic trees of the selected Phylogenetically Hierarchical Orthogroups (HOGs) based on their expression level and evidence of SL trans-splicing. For each gene it is indicated if it had evidence of SL trans-splicing above or below the 4 read threshold on the same acceptor site (Black Star or White star respectively). Followed by a Normalized TPM per species relative to the median TPM of SL trans-spliced genes and the total amount of SL bearing reads in the gene in logarithmic scale, displayed with green and red bars respectively. Both are capped (10 for the normalized TPM and 100 SL bearing reads), indicated with circles. Genes identified as members of operon candidates are indicated with a blue check mark.

Index: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Mesocestoides corti MCU_002950-RC
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Taenia solium TsM_000985400
Taenia multiceps Tm1G000907
Taenia saginata TSAs00007g01895m00001
Taenia asiatica TASs00006g01664m00001
Trichobilharzia regenti TRE_0000324501-mRNA-1
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Schistosoma bovis DC041_0001617
Fasciolopsis buski FBUS_09601
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Paragonimus heterotremus PHET_05022
Opisthorchis felineus CRM22_005421.5
Clonorchis sinensis Cs-k2.gene14610
Clonorchis sinensis Cs-k2.gene2614
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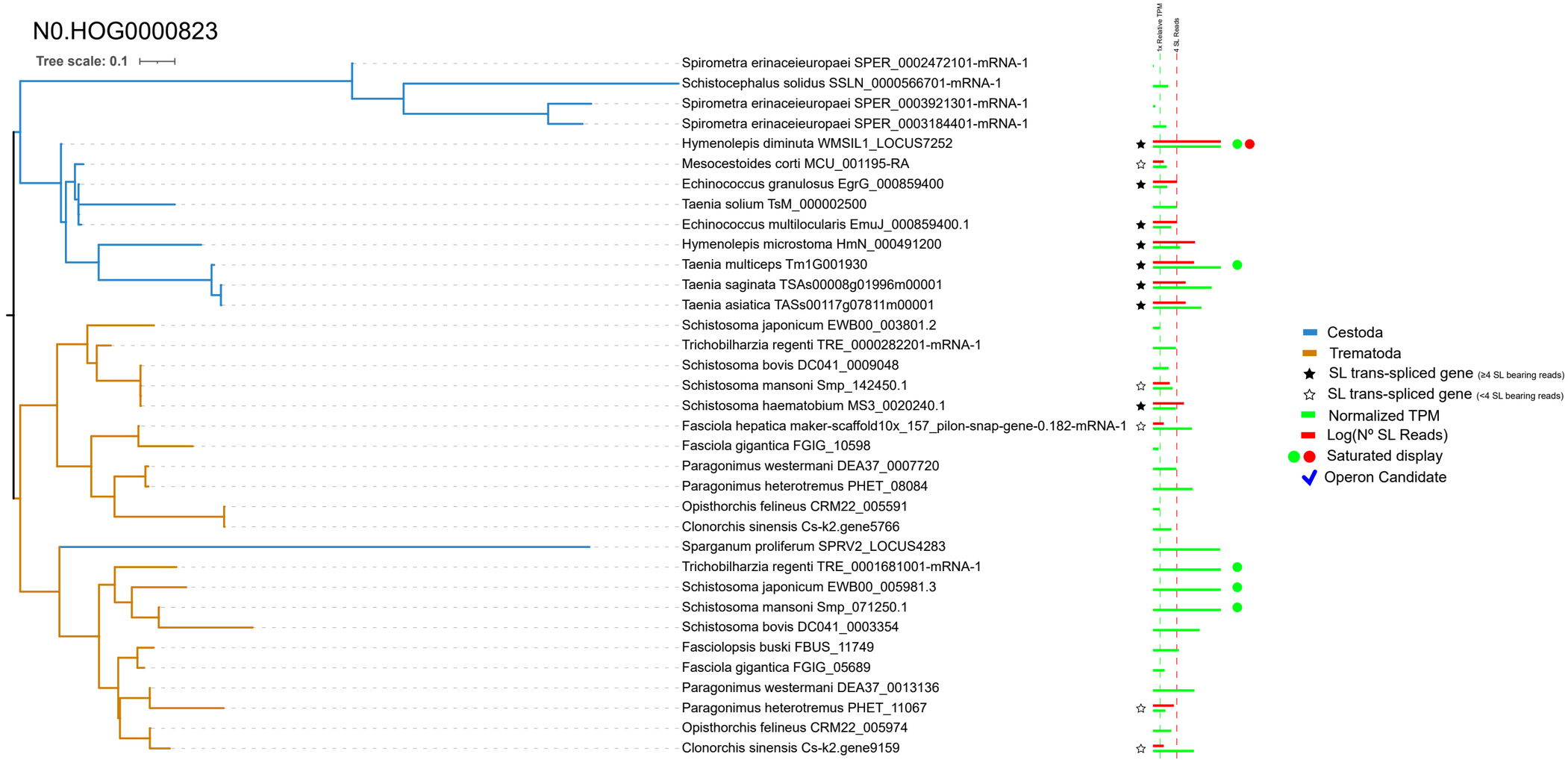
Clonorchis sinensis Cs-k2.gene14609
Cestoda
Trematoda
SL trans-spliced gene (≥4 SL bearing reads)
SL trans-spliced gene (<4 SL bearing reads)
Normalized TPM
Log(Nº SL Reads)
Saturated display
Operon Candidate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Taenia multiceps Tm1G001930
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Schistosoma bovis DC041_0009048
Schistosoma mansoni Smp_142450.1
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Trematoda
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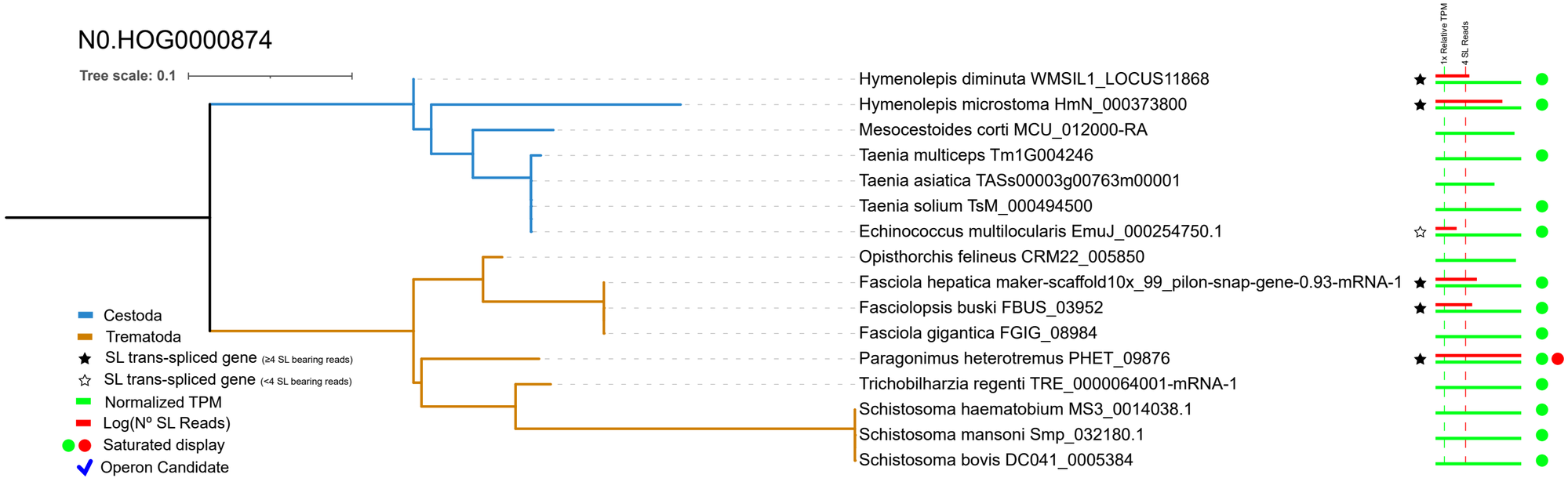
Log(Nº SL Reads)
Saturated display
Operon Candidate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Log(Nº SL Reads)
Saturated display
Operon Candidate
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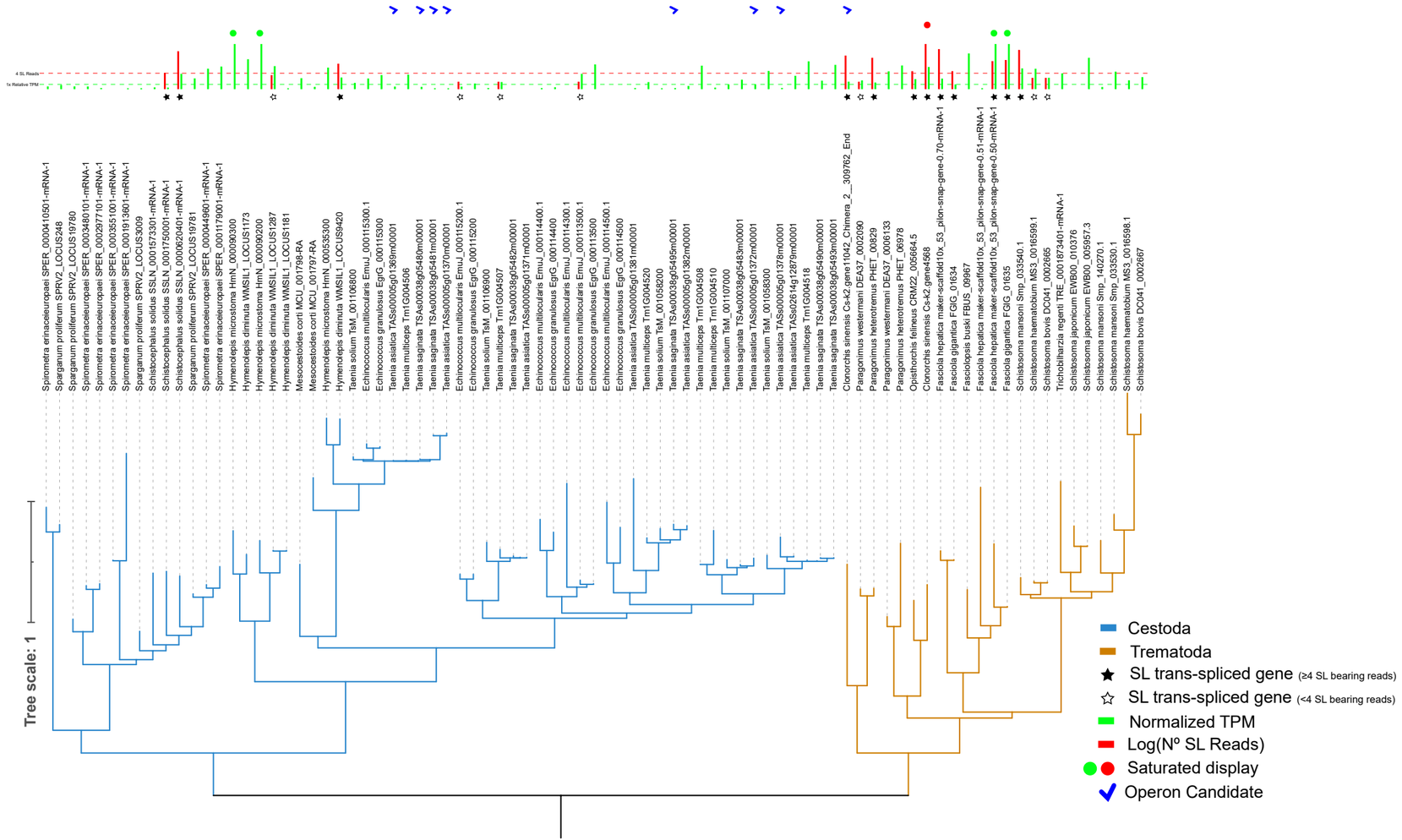

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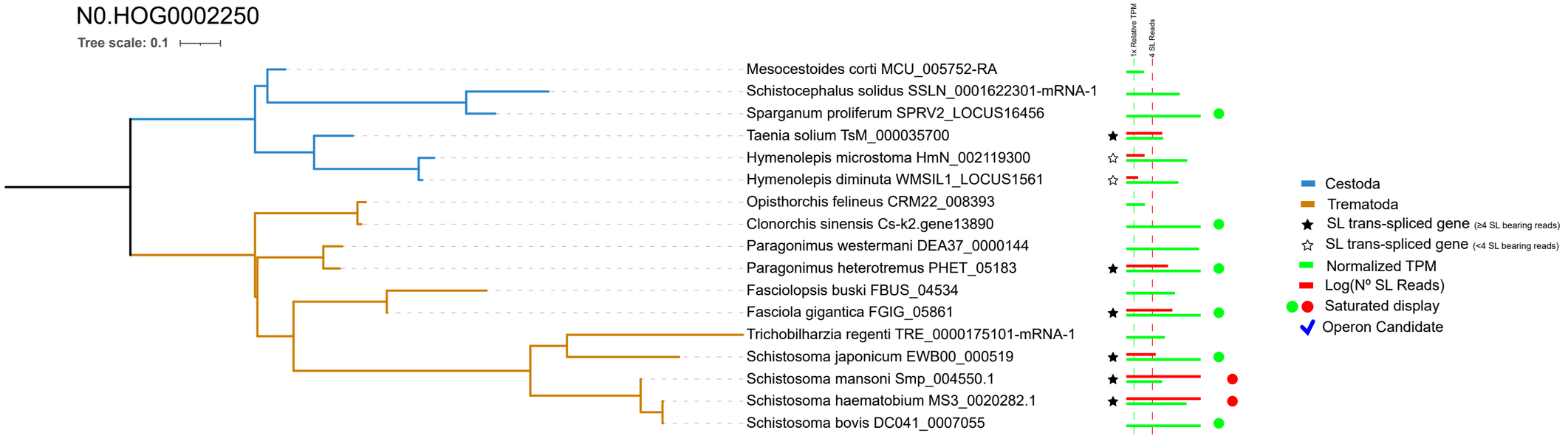
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Trematoda
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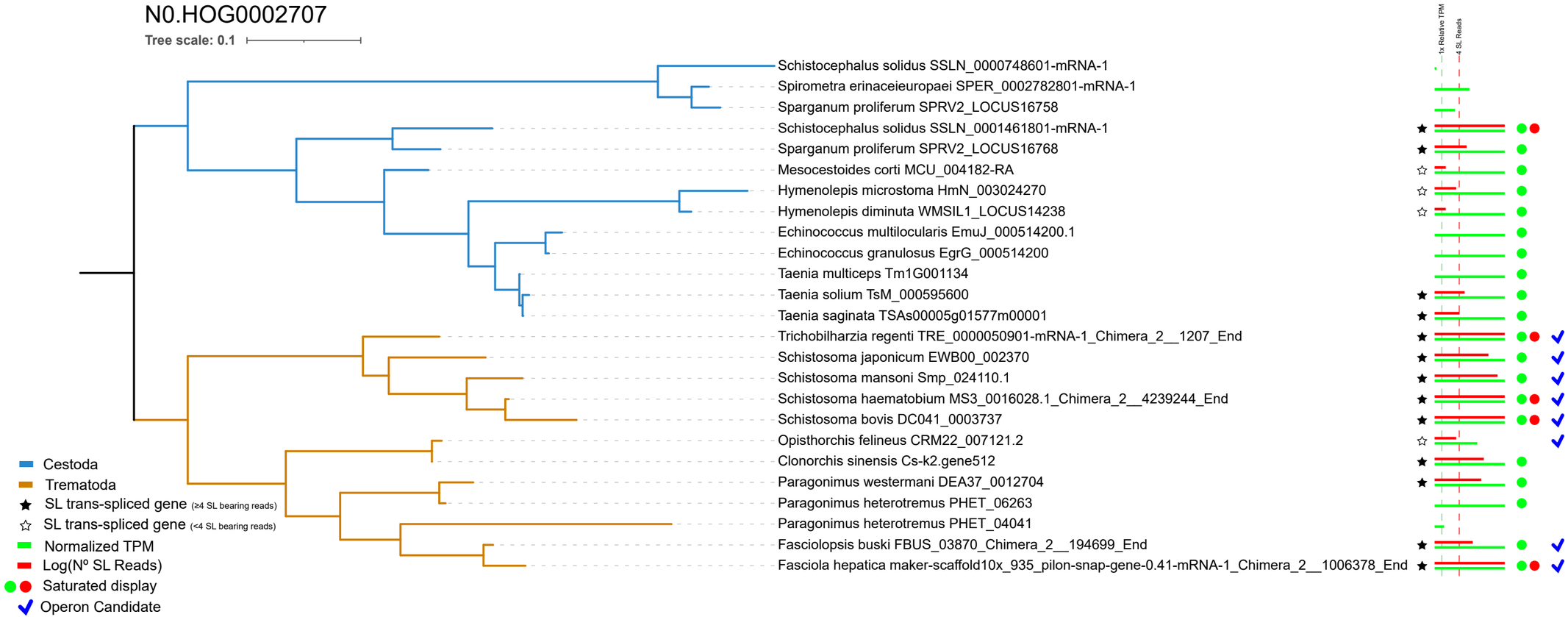
Normalized TPM
Log(Nº SL Reads)
Saturated display
Operon Candidate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Log(Nº SL Reads)
Saturated display
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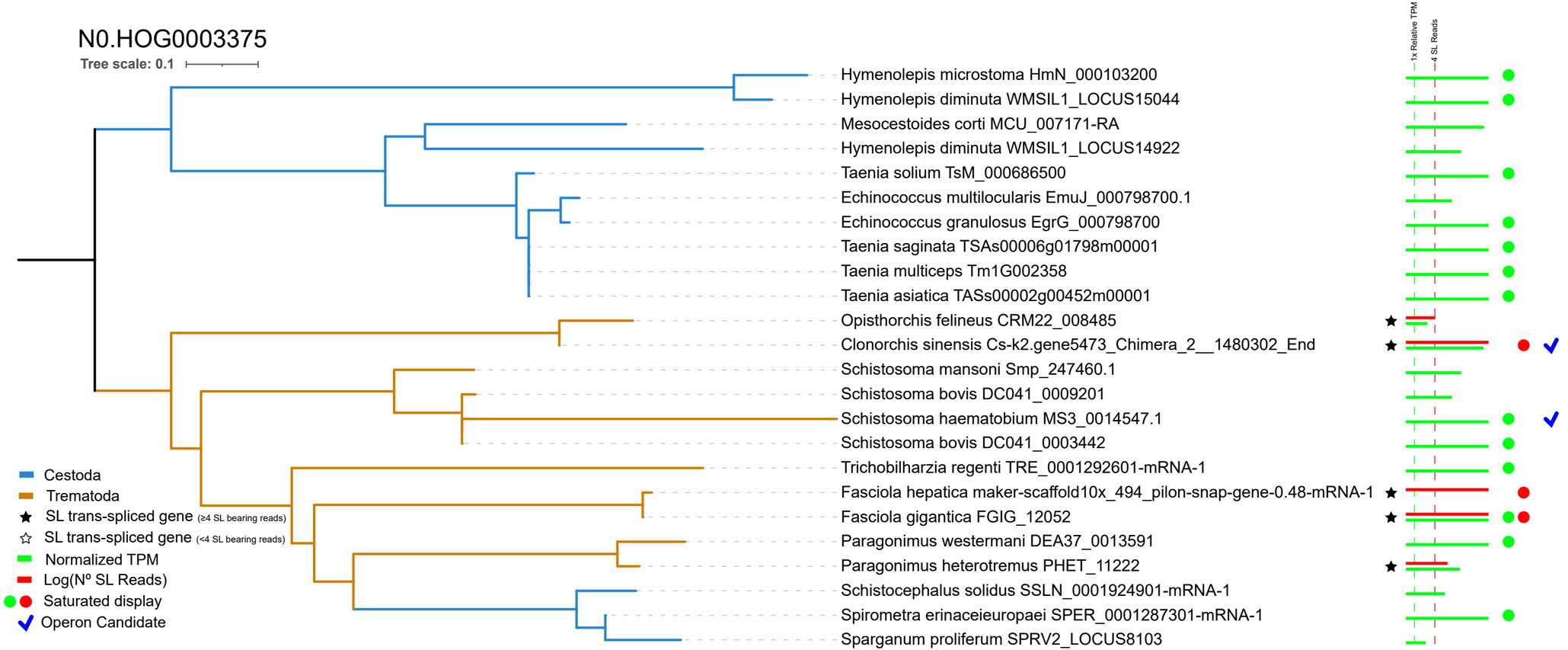
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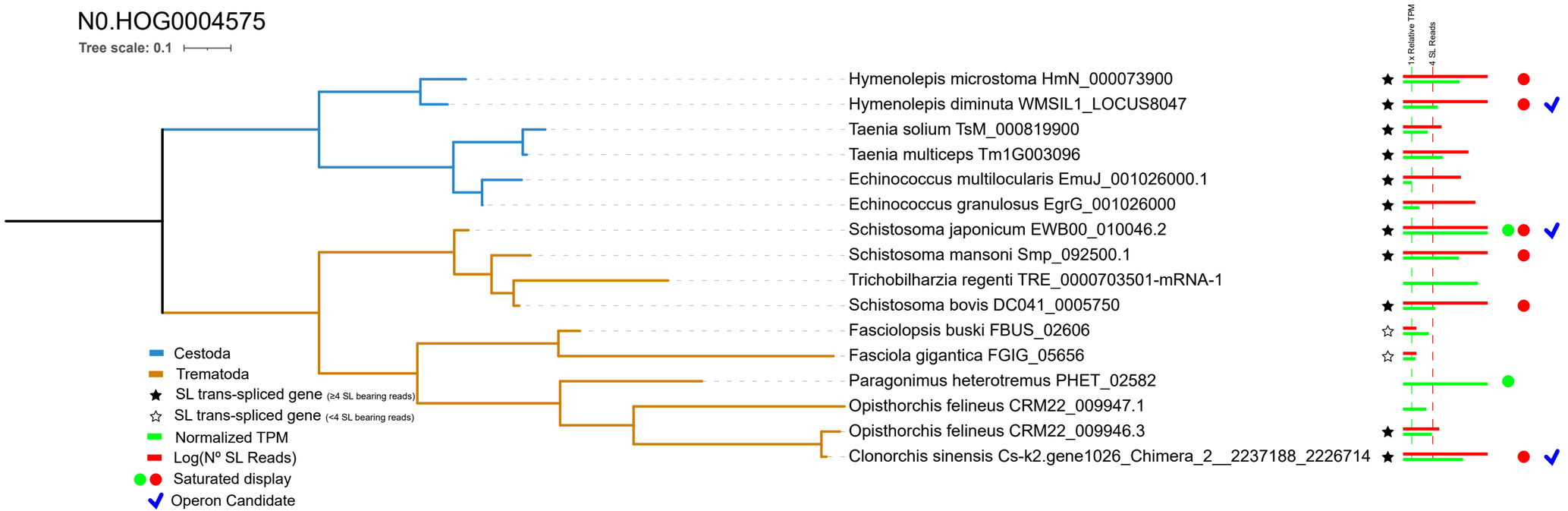
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Fasciola gigantica FGIG_05656
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Cestoda
Trematoda
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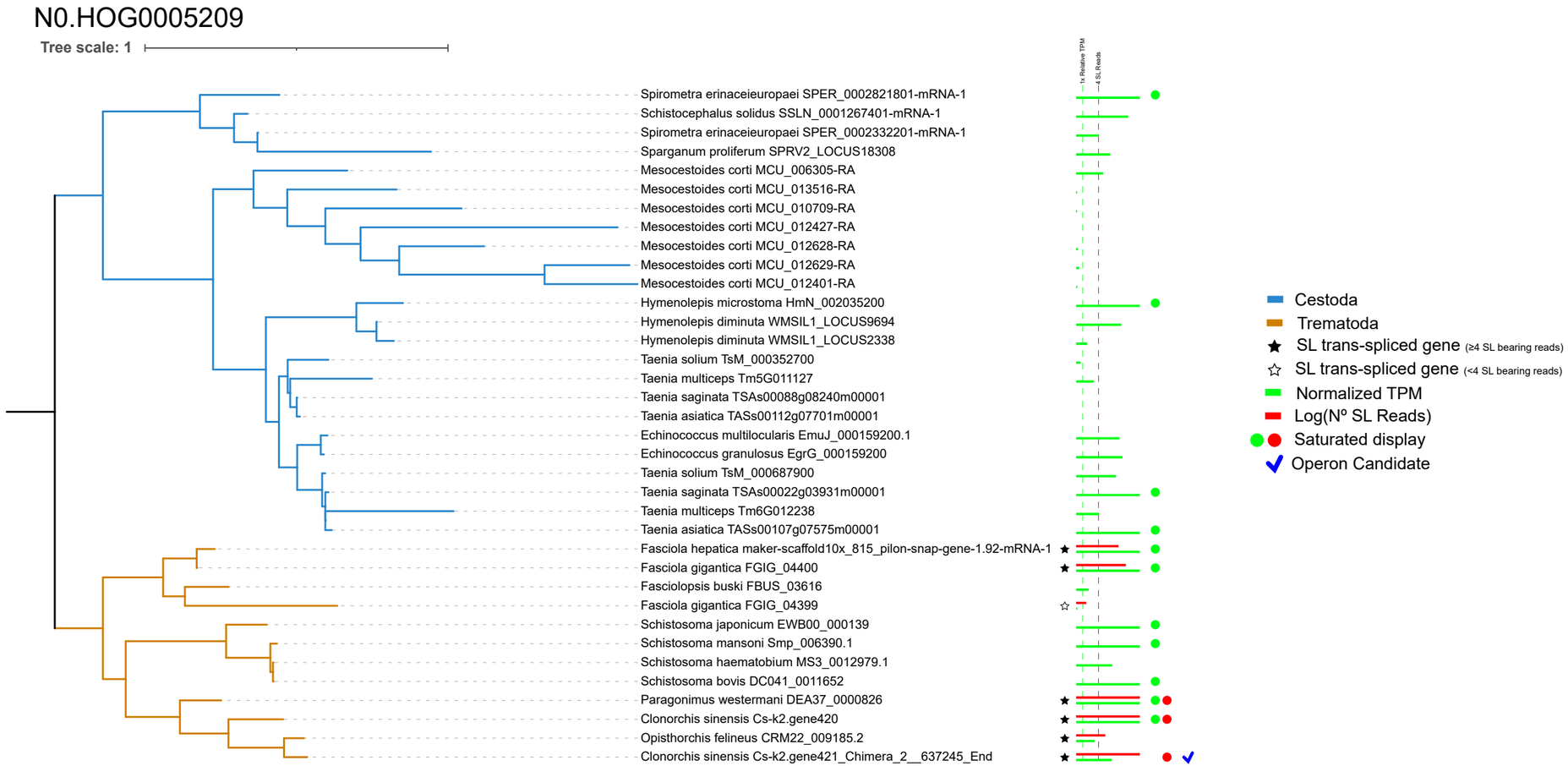
Operon Candidate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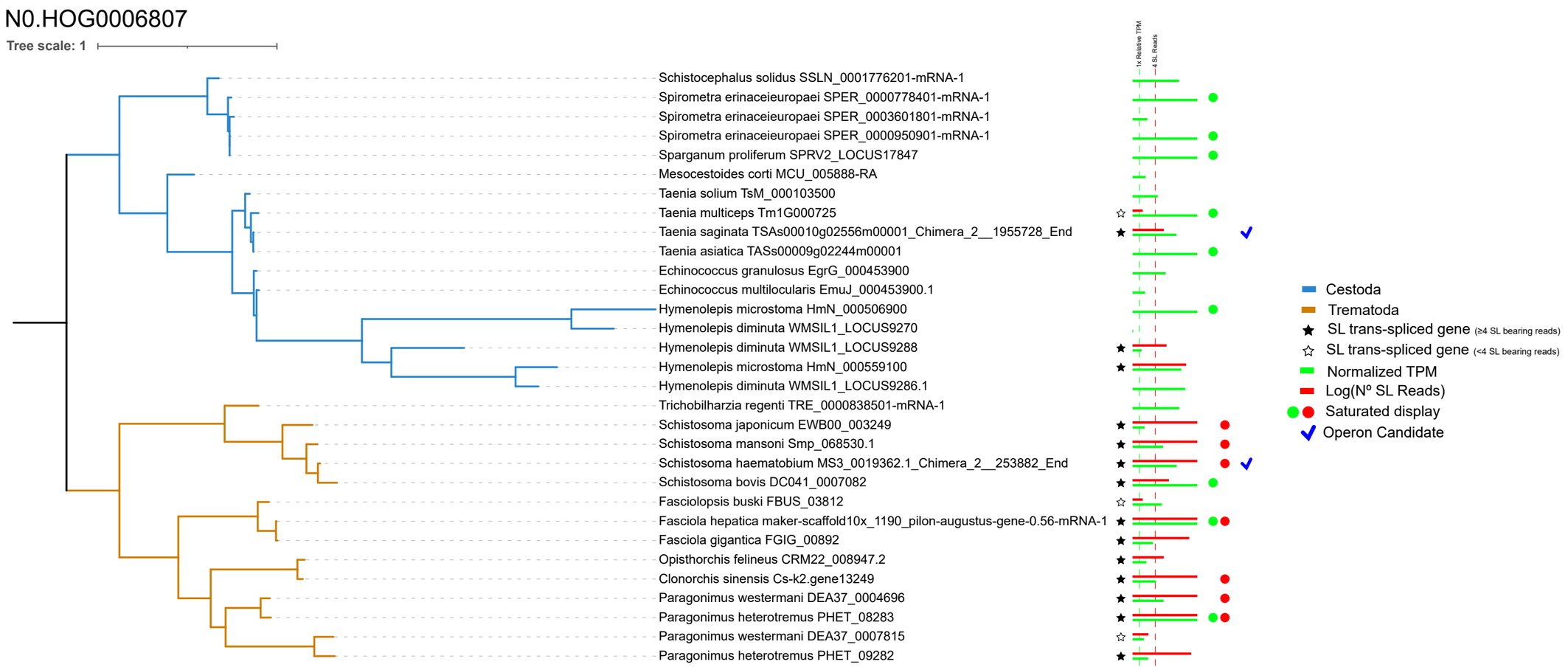
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Taenia multiceps Tm1G000725
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Taenia asiatica TASs00009g02244m00001
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Schistosoma haematobium MS3_0019362.1_Chimera_2__253882_End
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Fasciolopsis buski FBUS_03812
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Fasciola gigantica FGIG_00892
Opisthorchis felineus CRM22_008947.2
Clonorchis sinensis Cs-k2.gene13249
Paragonimus westermani DEA37_0004696
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Cestoda
Trematoda
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SL trans-spliced gene (<4 SL bearing reads)
Normalized TPM
Log(Nº SL Reads)
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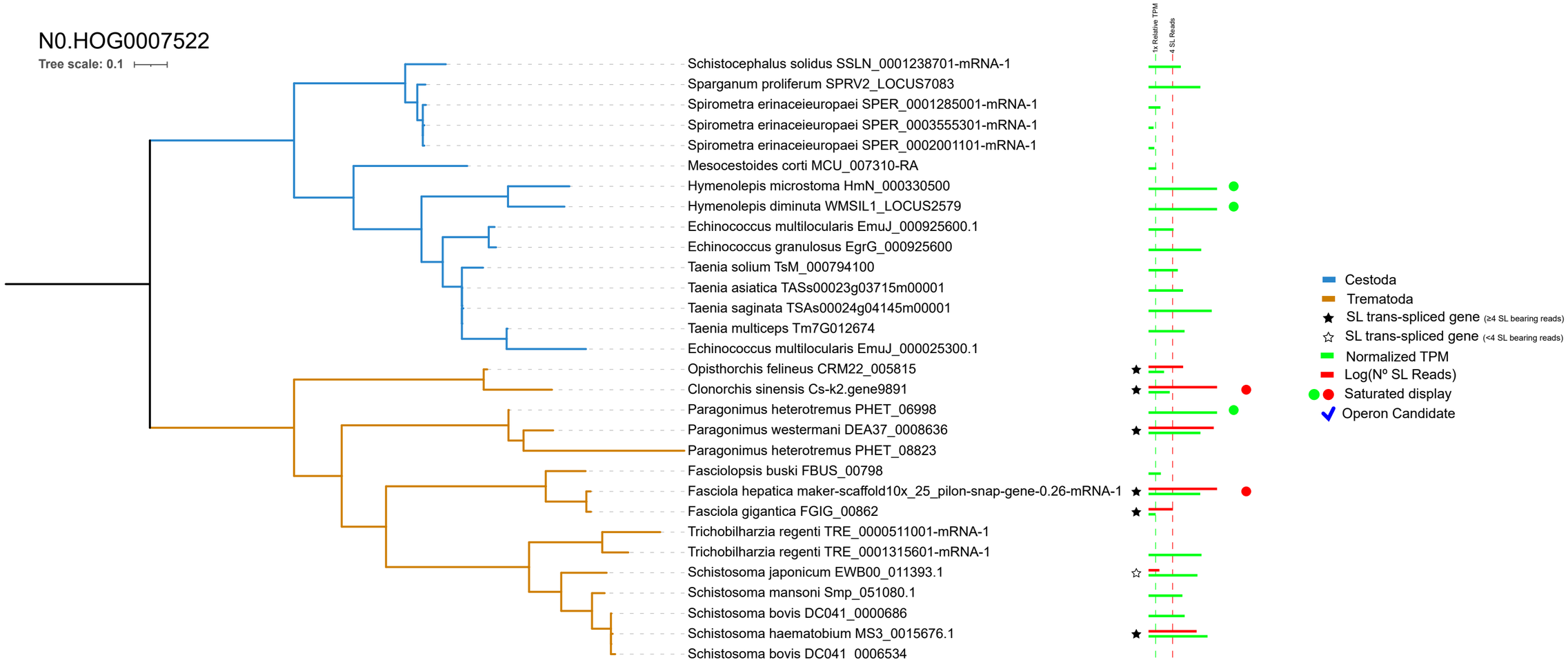
Operon Candidate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Trematoda
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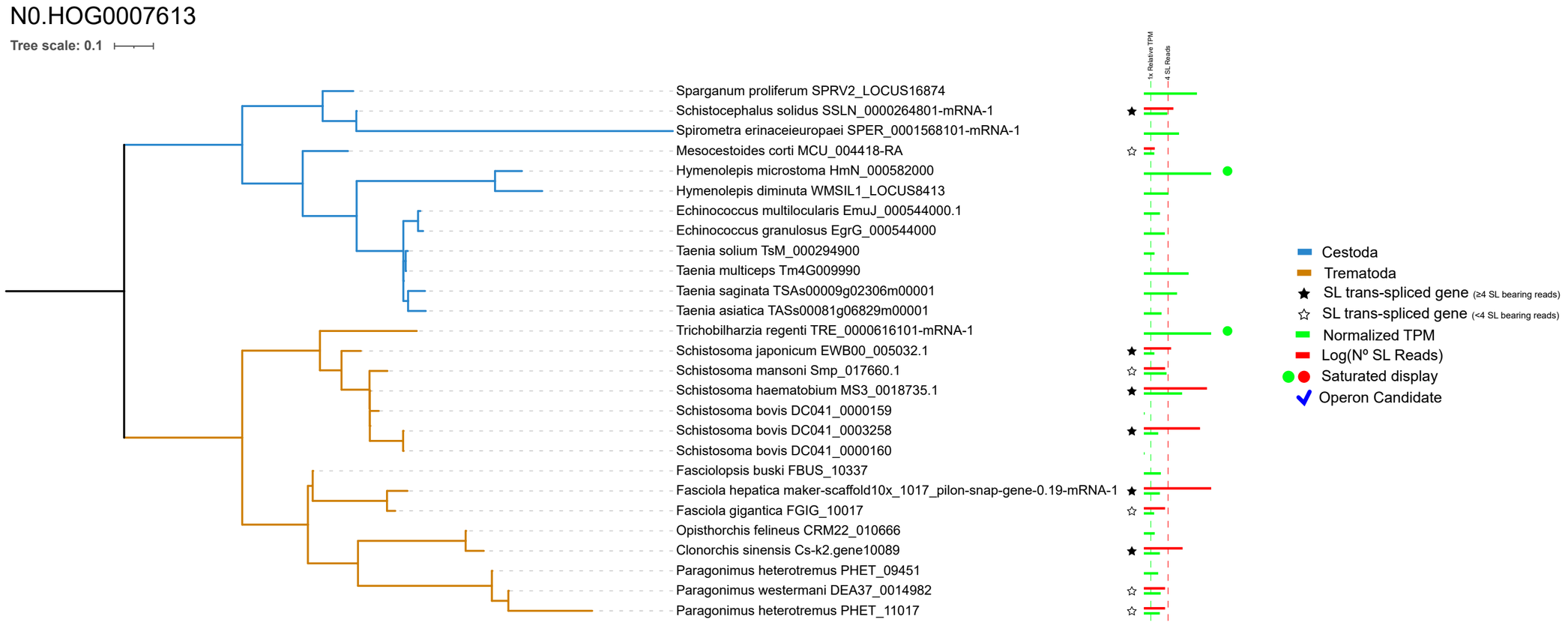
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4 SL Reads
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Trematoda
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SL trans-spliced gene (<4 SL bearing reads)
Normalized TPM
Log(Nº SL Reads)
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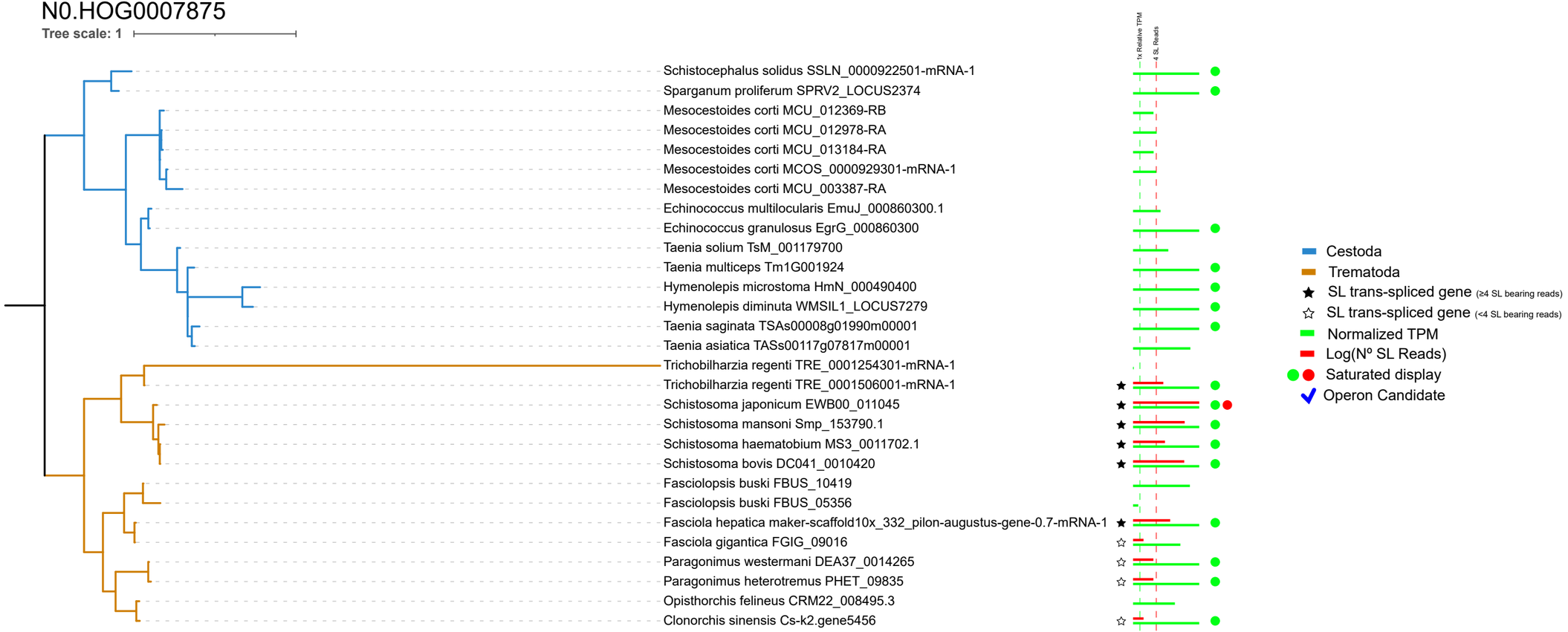
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Taenia asiatica TASs00117g07817m00001
Trichobilharzia regenti TRE_0001254301-mRNA-1
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Schistosoma japonicum EWB00_011045
Schistosoma mansoni Smp_153790.1
Schistosoma haematobium MS3_0011702.1
Schistosoma bovis DC041_0010420
Fasciolopsis buski FBUS_10419
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Fasciola gigantica FGIG_09016
Paragonimus westermani DEA37_0014265
Paragonimus heterotremus PHET_09835
Opisthorchis felineus CRM22_008495.3
Clonorchis sinensis Cs-k2.gene5456
Cestoda
Trematoda
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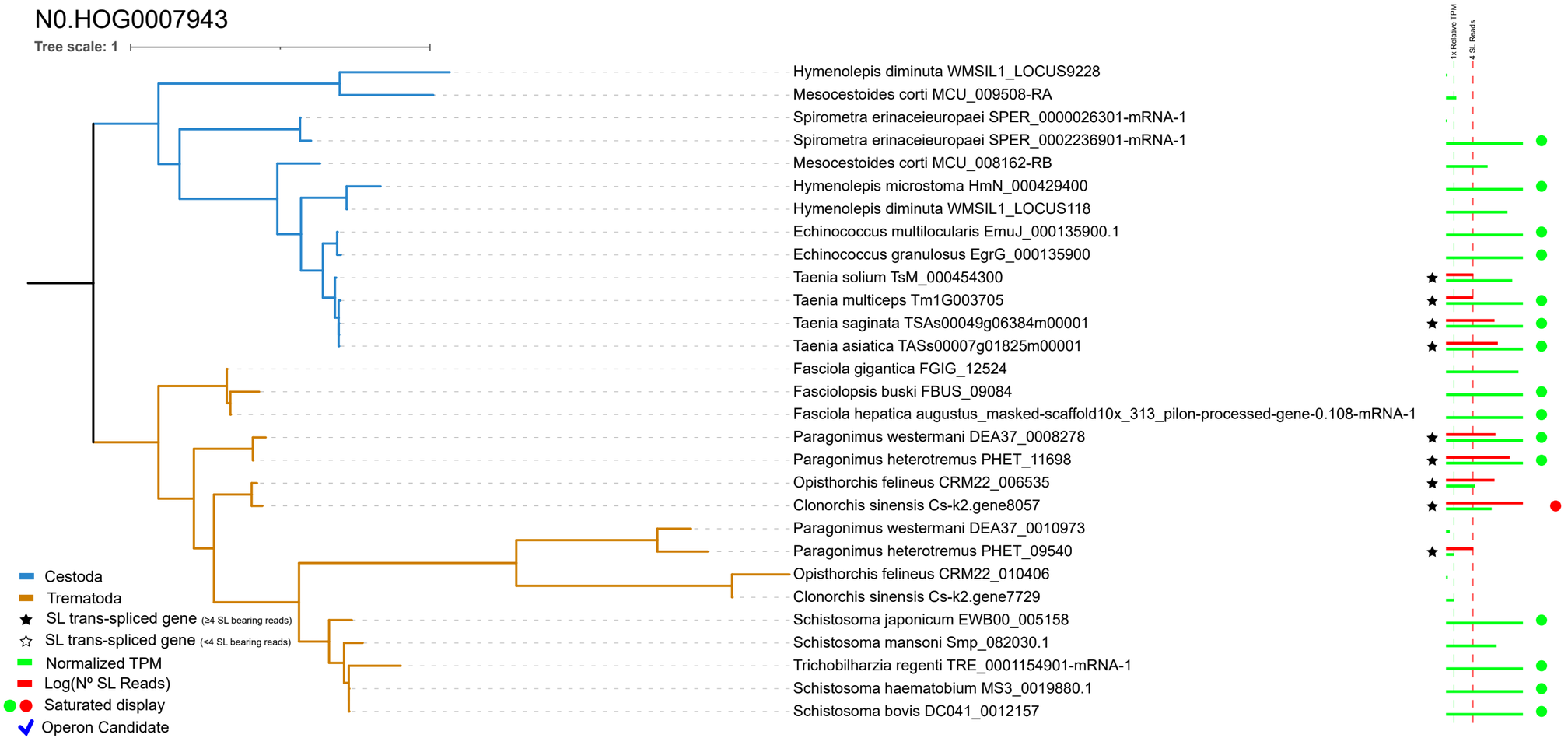
Log(Nº SL Reads)
Saturated display
Operon Candidate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Taenia multiceps Tm1G003705
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Fasciola gigantica FGIG_12524
Fasciolopsis buski FBUS_09084
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Opisthorchis felineus CRM22_006535
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Opisthorchis felineus CRM22_010406
Clonorchis sinensis Cs-k2.gene7729
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Schistosoma mansoni Smp_082030.1
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Schistosoma haematobium MS3_0019880.1
Schistosoma bovis DC041_0012157
Cestoda
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Log(Nº SL Reads)
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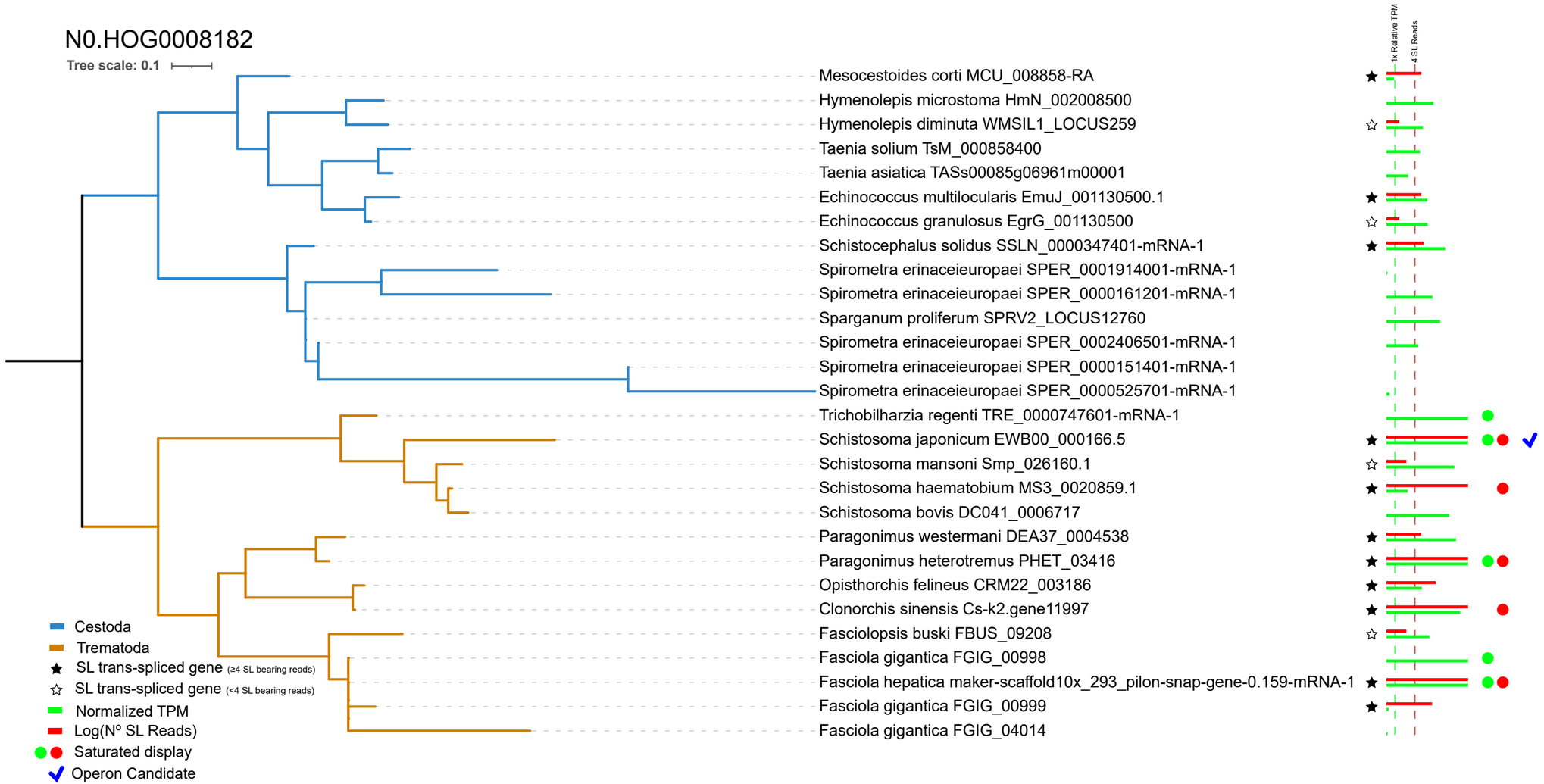
Operon Candidate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Spirometra erinaceieuropaei SPER_0000161201-mRNA-1
Sparganum proliferum SPRV2_LOCUS12760
Spirometra erinaceieuropaei SPER_0002406501-mRNA-1
Spirometra erinaceieuropaei SPER_0000151401-mRNA-1
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Opisthorchis felineus CRM22_003186
Clonorchis sinensis Cs-k2.gene11997
Fasciolopsis buski FBUS_09208
Fasciola gigantica FGIG_00998
Fasciola hepatica maker-scaffold10x_293_pilon-snap-gene-0.159-mRNA-1
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1x Relative TPM
4 SL Reads
Cestoda
Trematoda
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Normalized TPM
Log(Nº SL Reads)
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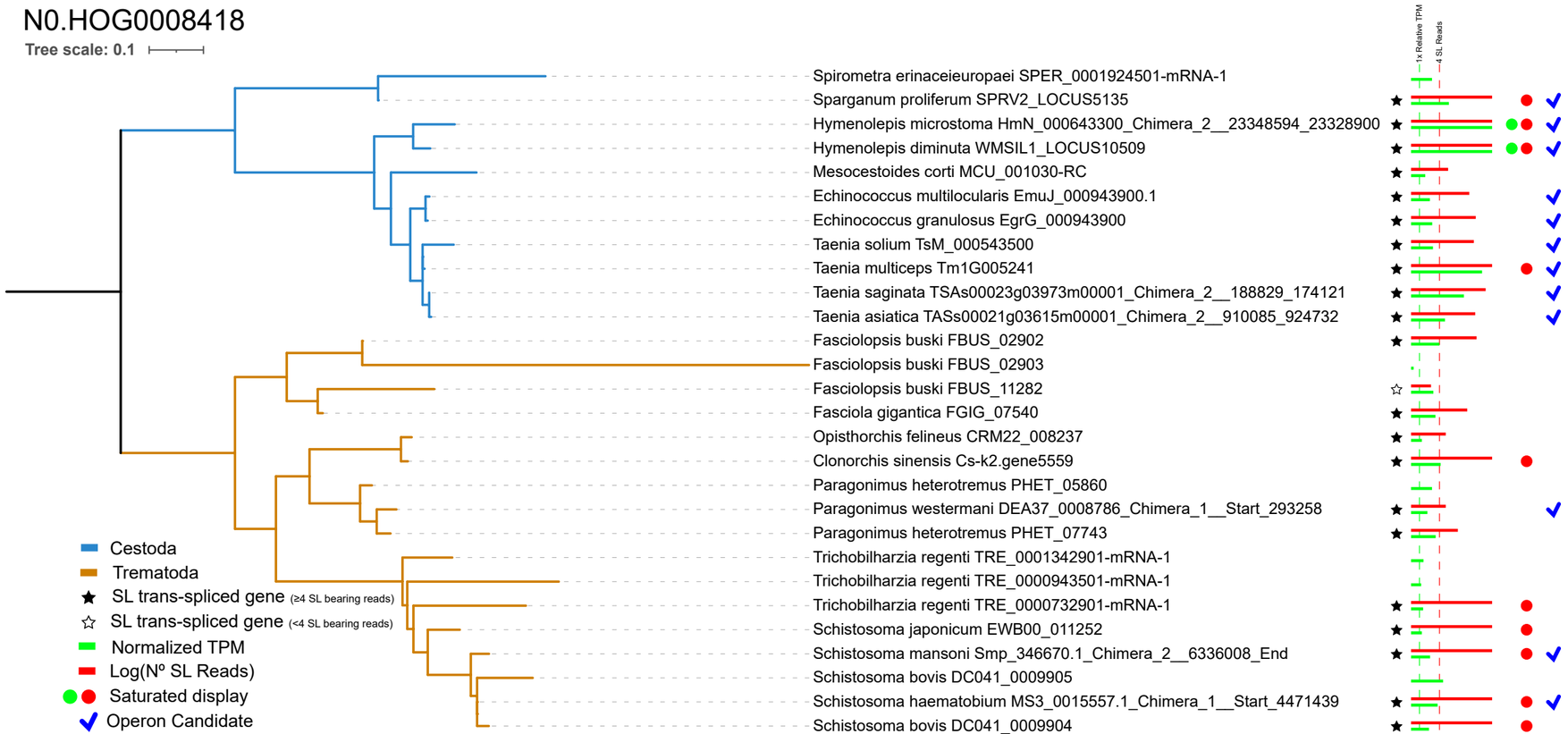
Operon Candidate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Taenia multiceps Tm1G005241
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Taenia asiatica TASs00021g03615m00001_Chimera_2__910085_924732
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Fasciolopsis buski FBUS_11282
Fasciola gigantica FGIG_07540
Opisthorchis felineus CRM22_008237
Clonorchis sinensis Cs-k2.gene5559
Paragonimus heterotremus PHET_05860
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Trichobilharzia regenti TRE_0000732901-mRNA-1
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Schistosoma mansoni Smp_346670.1_Chimera_2__6336008_End
Schistosoma bovis DC041_0009905
Schistosoma haematobium MS3_0015557.1_Chimera_1__Start_4471439
Schistosoma bovis DC041_0009904
Cestoda
Trematoda
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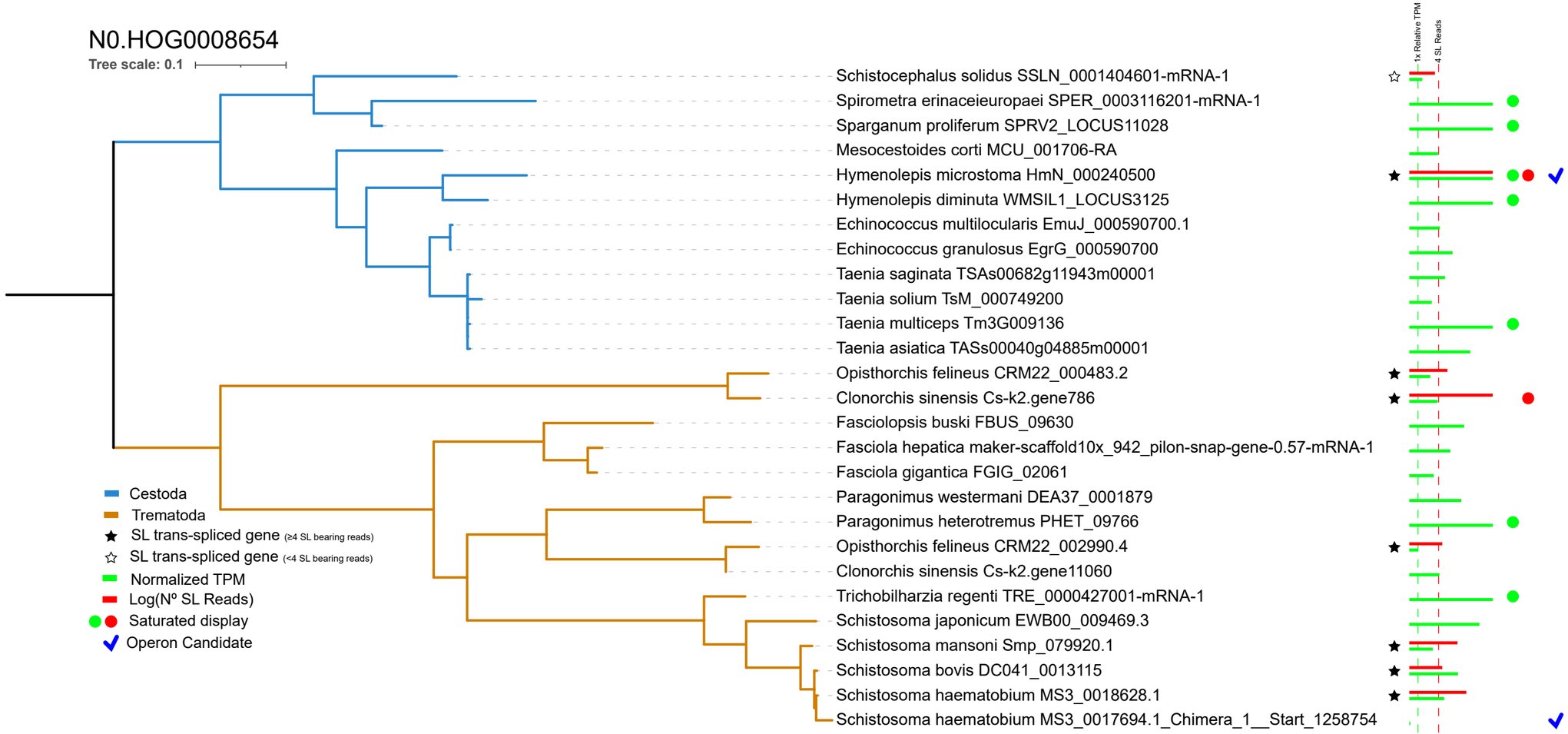
Normalized TPM
Log(Nº SL Reads)
Saturated display
Operon Candidate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Hymenolepis diminuta WMSIL1_LOCUS3125
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Taenia saginata TSAs00682g11943m00001
Taenia solium TsM_000749200
Taenia multiceps Tm3G009136
Taenia asiatica TASs00040g04885m00001
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Clonorchis sinensis Cs-k2.gene786
Fasciolopsis buski FBUS_09630
Fasciola hepatica maker-scaffold10x_942_pilon-snap-gene-0.57-mRNA-1
Fasciola gigantica FGIG_02061
Paragonimus westermani DEA37_0001879
Paragonimus heterotremus PHET_09766
Opisthorchis felineus CRM22_002990.4
Clonorchis sinensis Cs-k2.gene11060
Trichobilharzia regenti TRE_0000427001-mRNA-1
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Schistosoma mansoni Smp_079920.1
Schistosoma bovis DC041_0013115
Schistosoma haematobium MS3_0018628.1
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Cestoda
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Normalized TPM
Log(Nº SL Reads)
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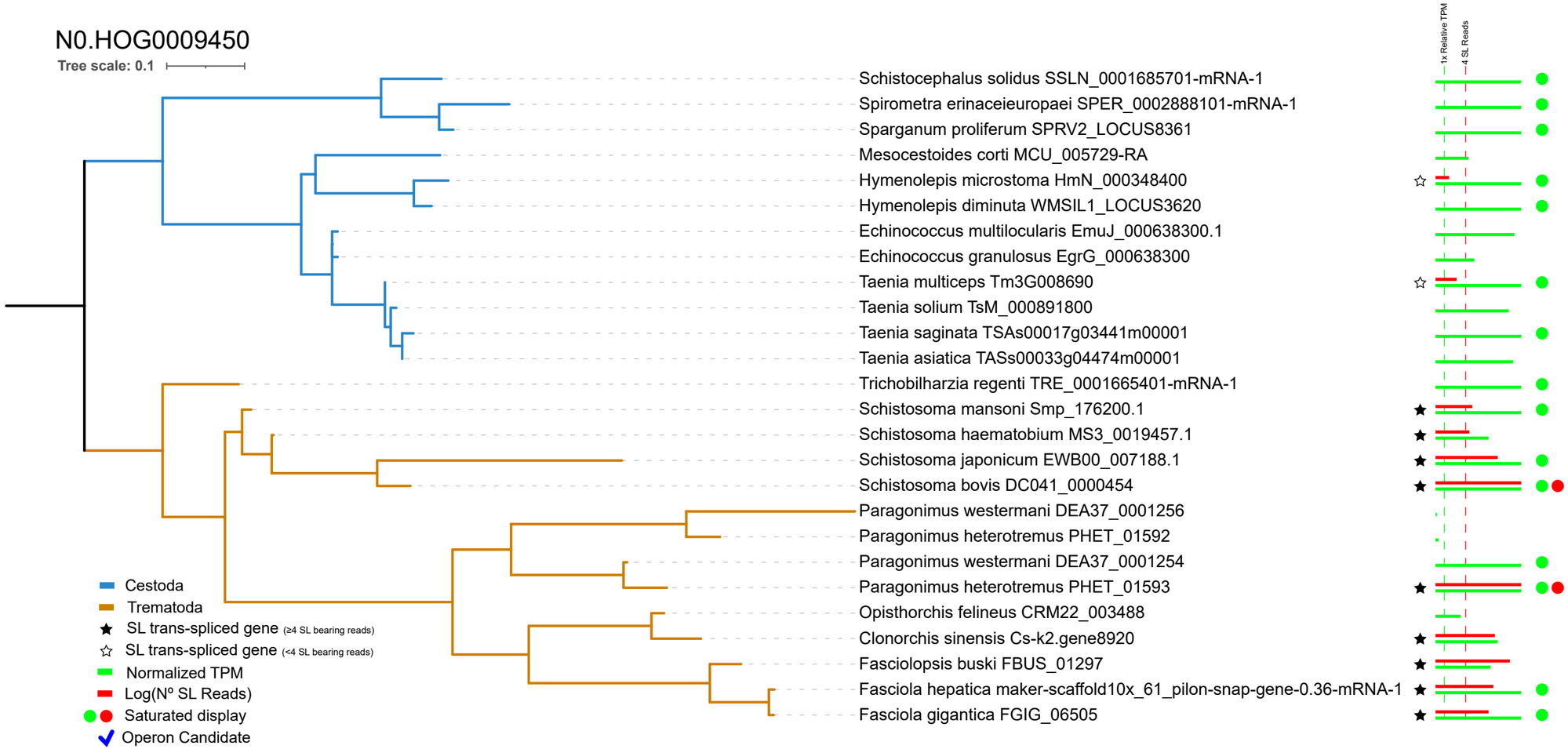
Operon Candidate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Hymenolepis diminuta WMSIL1_LOCUS3620
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Taenia multiceps Tm3G008690
Taenia solium TsM_000891800
Taenia saginata TSAs00017g03441m00001
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Trichobilharzia regenti TRE_0001665401-mRNA-1
Schistosoma mansoni Smp_176200.1
Schistosoma haematobium MS3_0019457.1
Schistosoma japonicum EWB00_007188.1
Schistosoma bovis DC041_0000454
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Opisthorchis felineus CRM22_003488
Clonorchis sinensis Cs-k2.gene8920
Fasciolopsis buski FBUS_01297
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Cestoda
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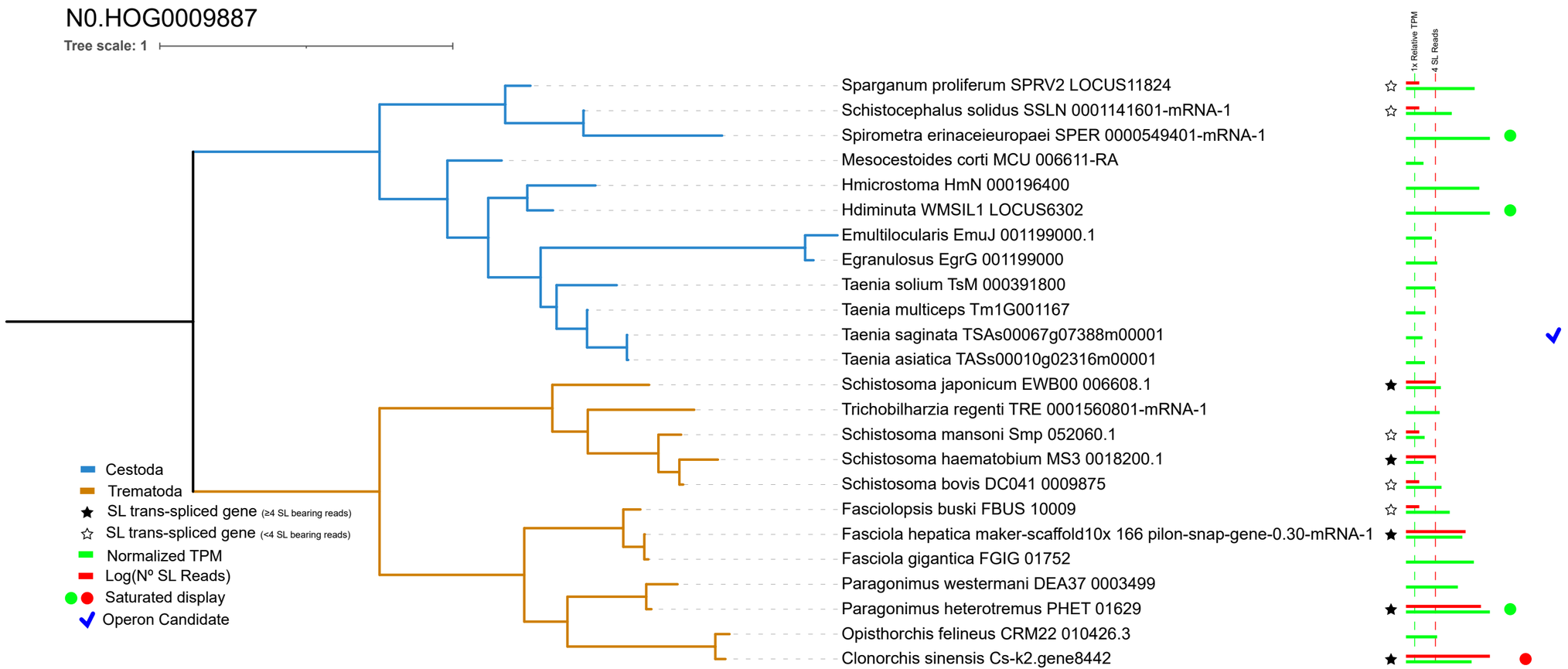
Operon Candidate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Mesocestoides corti MCU 006611-RA
Hmicrostoma HmN 000196400
Hdiminuta WMSIL1 LOCUS6302
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Taenia saginata TSAs00067g07388m00001
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Trichobilharzia regenti TRE 0001560801-mRNA-1
Schistosoma mansoni Smp 052060.1
Schistosoma haematobium MS3 0018200.1
Schistosoma bovis DC041 0009875
Fasciolopsis buski FBUS 10009
Fasciola hepatica maker-scaffold10x 166 pilon-snap-gene-0.30-mRNA-1
Fasciola gigantica FGIG 01752
Paragonimus westermani DEA37 0003499
Paragonimus heterotremus PHET 01629
Opisthorchis felineus CRM22 010426.3
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Cestoda
Trematoda
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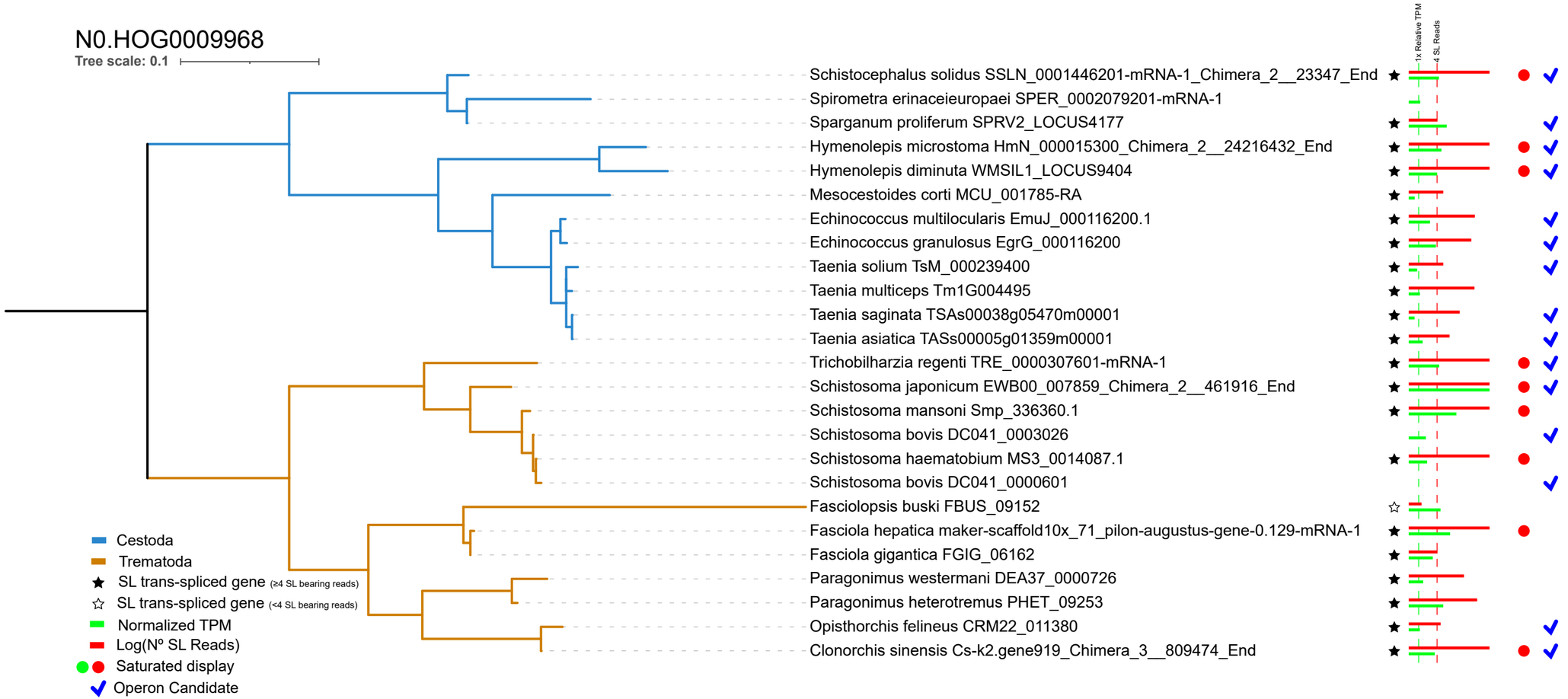
Operon Candidate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Hymenolepis microstoma HmN_000015300_Chimera_2__24216432_End
Hymenolepis diminuta WMSIL1_LOCUS9404
Mesocestoides corti MCU_001785-RA
Echinococcus multilocularis EmuJ_000116200.1
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Taenia solium TsM_000239400
Taenia multiceps Tm1G004495
Taenia saginata TSAs00038g05470m00001
Taenia asiatica TASs00005g01359m00001
Trichobilharzia regenti TRE_0000307601-mRNA-1
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Opisthorchis felineus CRM22_011380
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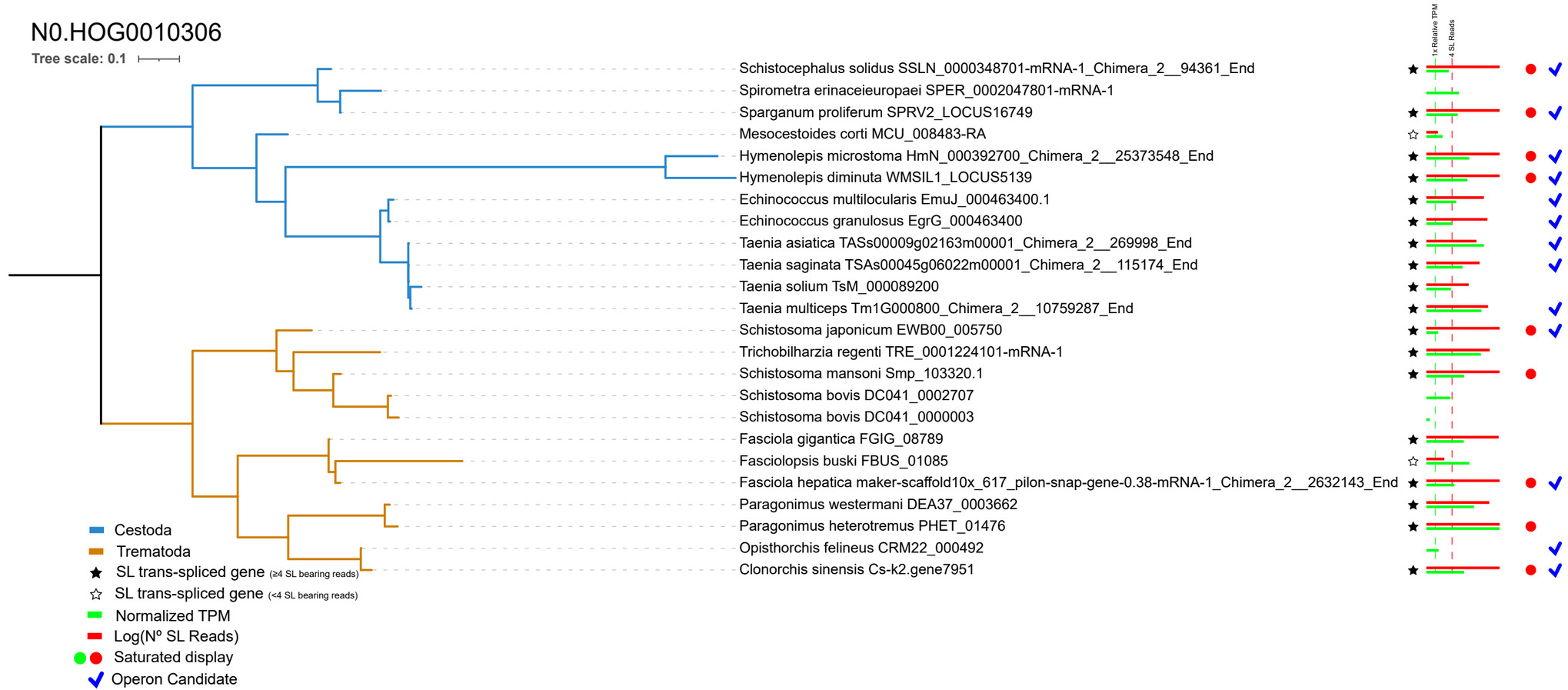
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Mesocestoides corti MCU_008483-RA
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Taenia multiceps Tm1G000800_Chimera_2__10759287_End
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Trichobilharzia regenti TRE_0001224101-mRNA-1
Schistosoma mansoni Smp_103320.1
Schistosoma bovis DC041_0002707
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Fasciola gigantica FGIG_08789
Fasciolopsis buski FBUS_01085
Fasciola hepatica maker-scaffold10x_617_pilon-snap-gene-0.38-mRNA-1_Chimera_2__2632143_End
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Log(Nº SL Reads)
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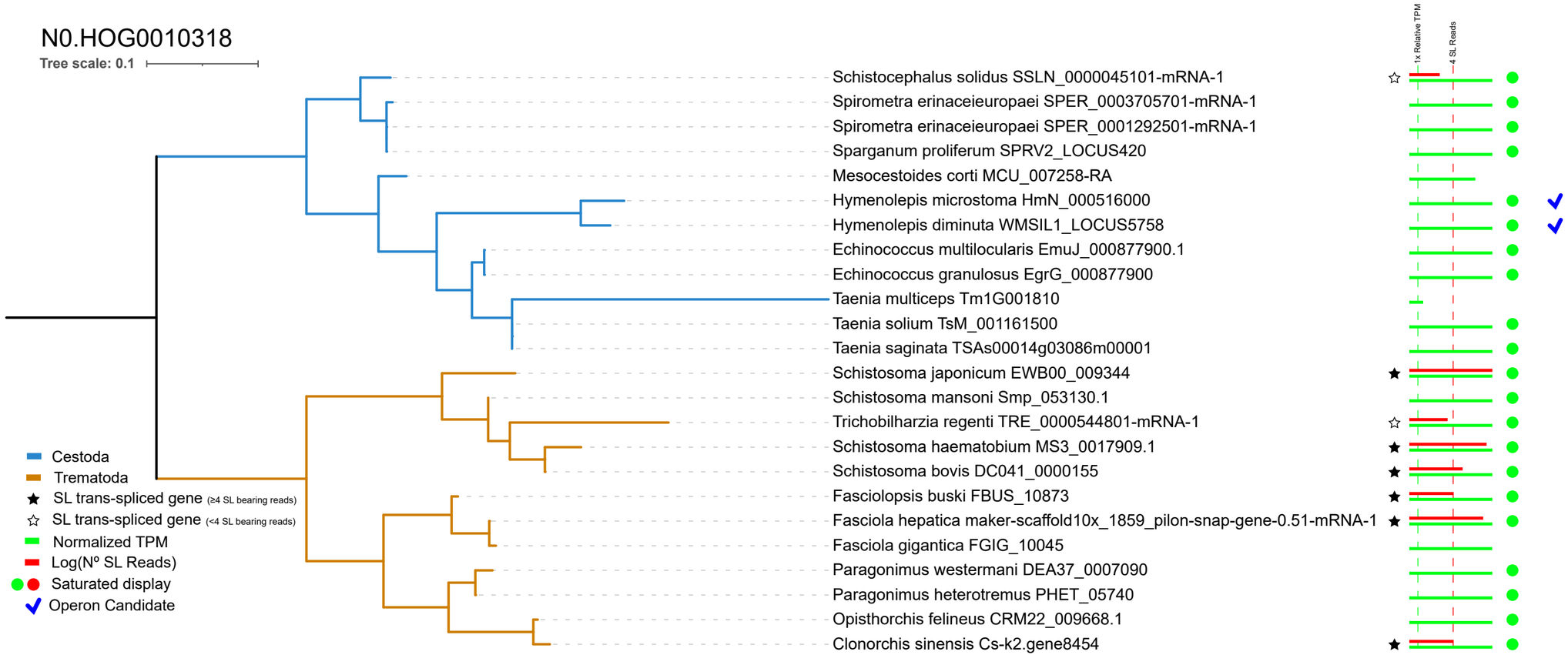
Operon Candidate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Sparganum proliferum SPRV2_LOCUS420
Mesocestoides corti MCU_007258-RA
Hymenolepis microstoma HmN_000516000
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Echinococcus multilocularis EmuJ_000877900.1
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Taenia multiceps Tm1G001810
Taenia solium TsM_001161500
Taenia saginata TSAs00014g03086m00001
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Schistosoma mansoni Smp_053130.1
Trichobilharzia regenti TRE_0000544801-mRNA-1
Schistosoma haematobium MS3_0017909.1
Schistosoma bovis DC041_0000155
Fasciolopsis buski FBUS_10873
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Fasciola gigantica FGIG_10045
Paragonimus westermani DEA37_0007090
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Opisthorchis felineus CRM22_009668.1
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Cestoda
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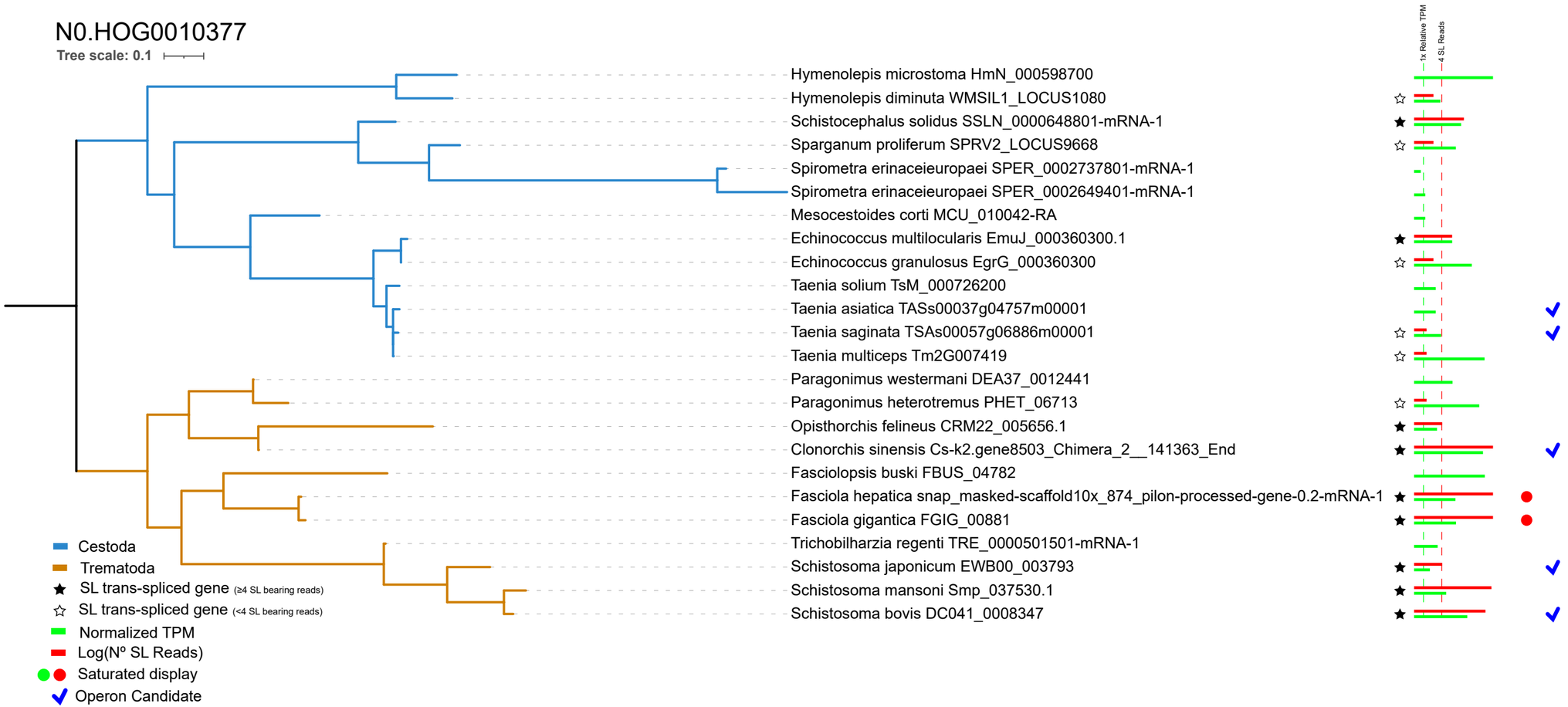
Operon Candidate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Mesocestoides corti MCU_010042-RA
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Taenia solium TsM_000726200
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Fasciola gigantica FGIG_00881
Trichobilharzia regenti TRE_0000501501-mRNA-1
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Schistosoma mansoni Smp_037530.1
Schistosoma bovis DC041_0008347
Cestoda
Trematoda
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Normalized TPM
Log(Nº SL Reads)
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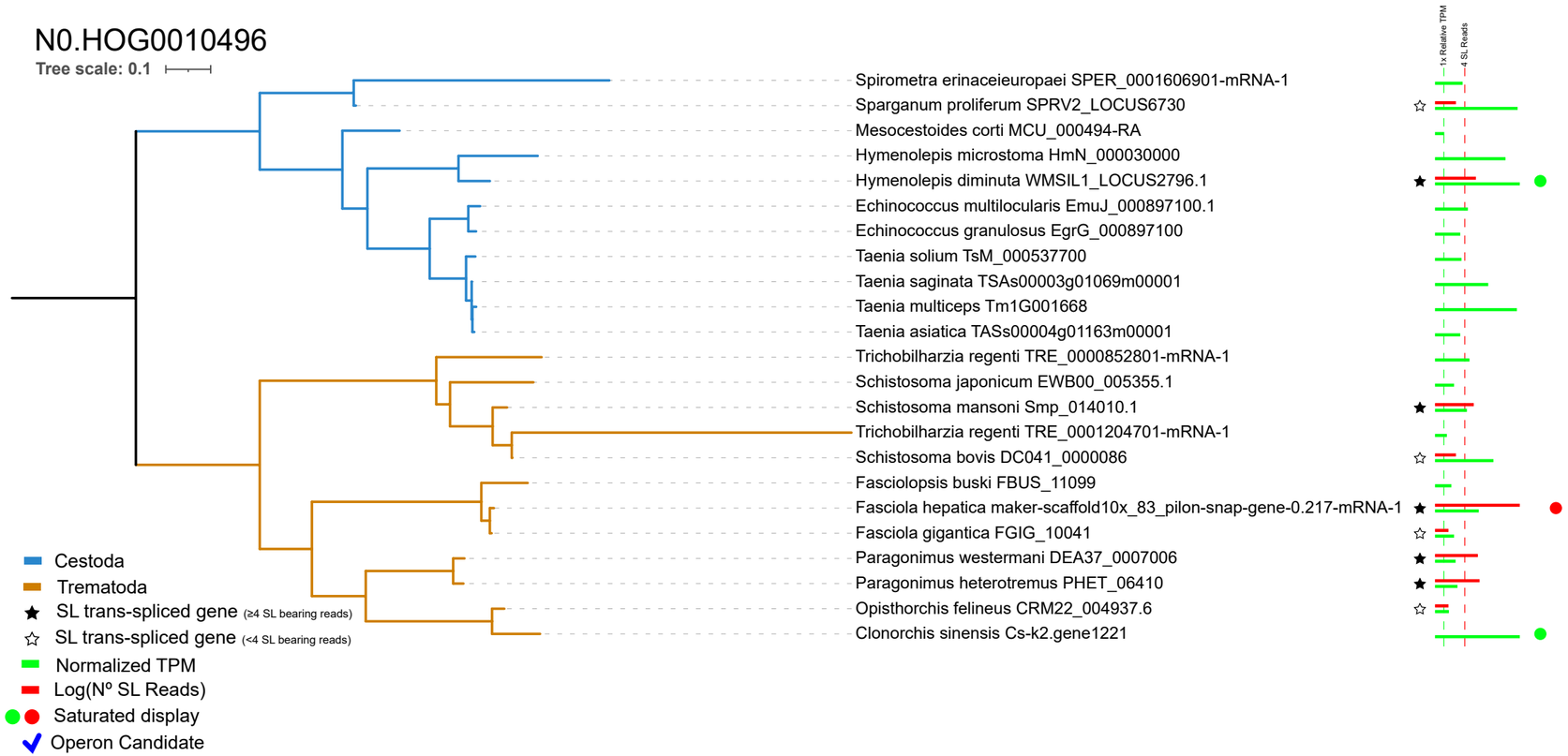
Operon Candidate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Hymenolepis diminuta WMSIL1_LOCUS2796.1
Echinococcus multilocularis EmuJ_000897100.1
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Taenia solium TsM_000537700
Taenia saginata TSAs00003g01069m00001
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Taenia asiatica TASs00004g01163m00001
Trichobilharzia regenti TRE_0000852801-mRNA-1
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Cestoda
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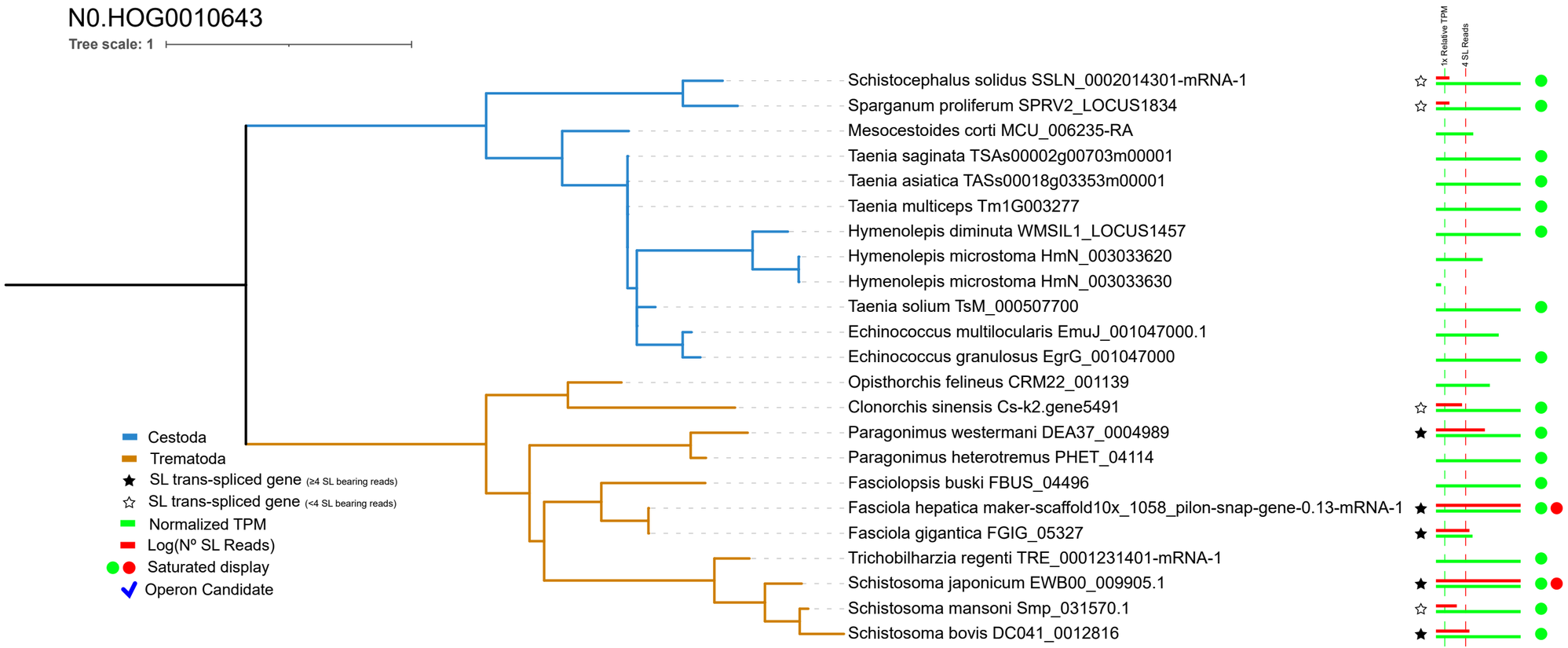
Normalized TPM
Log(Nº SL Reads)
Saturated display
Operon Candidate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Mesocestoides corti MCU_006235-RA
Taenia saginata TSAs00002g00703m00001
Taenia asiatica TASs00018g03353m00001
Taenia multiceps Tm1G003277
Hymenolepis diminuta WMSIL1_LOCUS1457
Hymenolepis microstoma HmN_003033620
Hymenolepis microstoma HmN_003033630
Taenia solium TsM_000507700
Echinococcus multilocularis EmuJ_001047000.1
Echinococcus granulosus EgrG_001047000
Opisthorchis felineus CRM22_001139
Clonorchis sinensis Cs-k2.gene5491
Paragonimus westermani DEA37_0004989
Paragonimus heterotremus PHET_04114
Fasciolopsis buski FBUS_04496
Fasciola hepatica maker-scaffold10x_1058_pilon-snap-gene-0.13-mRNA-1
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Trichobilharzia regenti TRE_0001231401-mRNA-1
Schistosoma japonicum EWB00_009905.1
Schistosoma mansoni Smp_031570.1
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Cestoda
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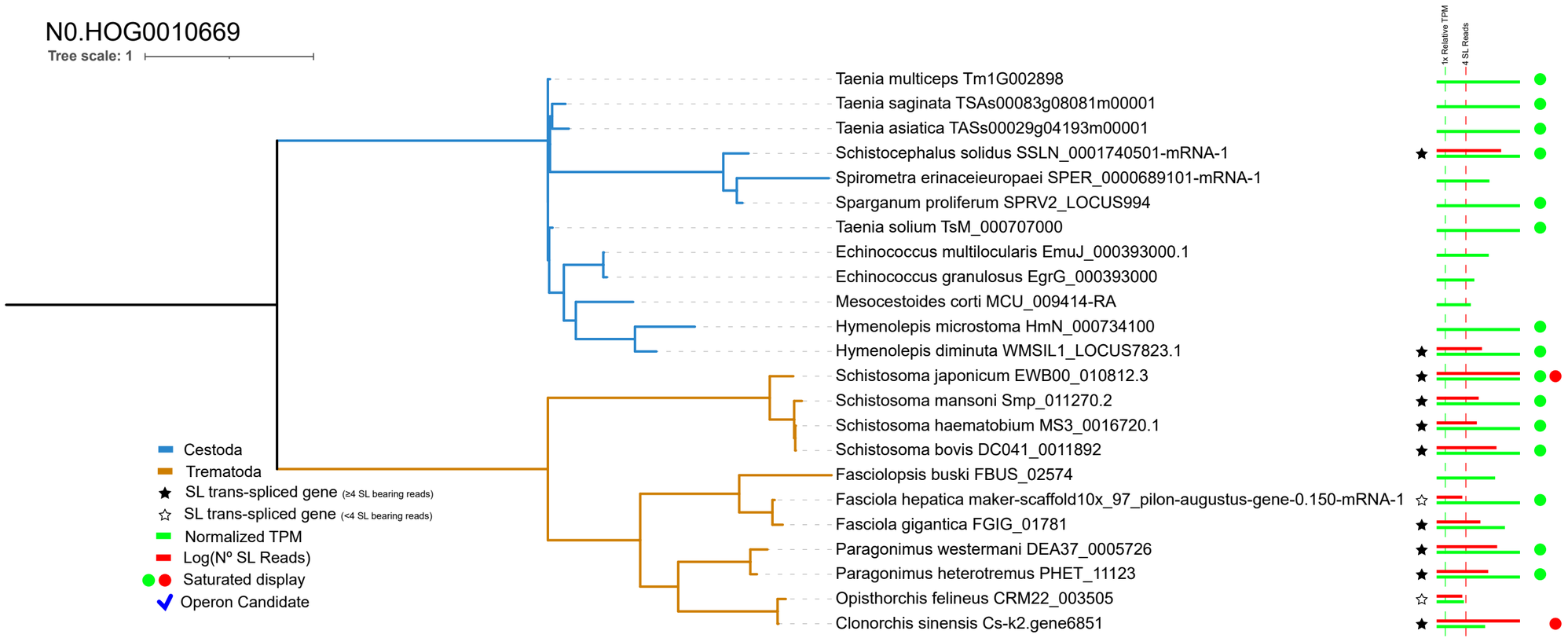
Normalized TPM
Log(Nº SL Reads)
Saturated display
Operon Candidate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Schistosoma mansoni Smp_011270.2
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Paragonimus westermani DEA37_0005726
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Cestoda
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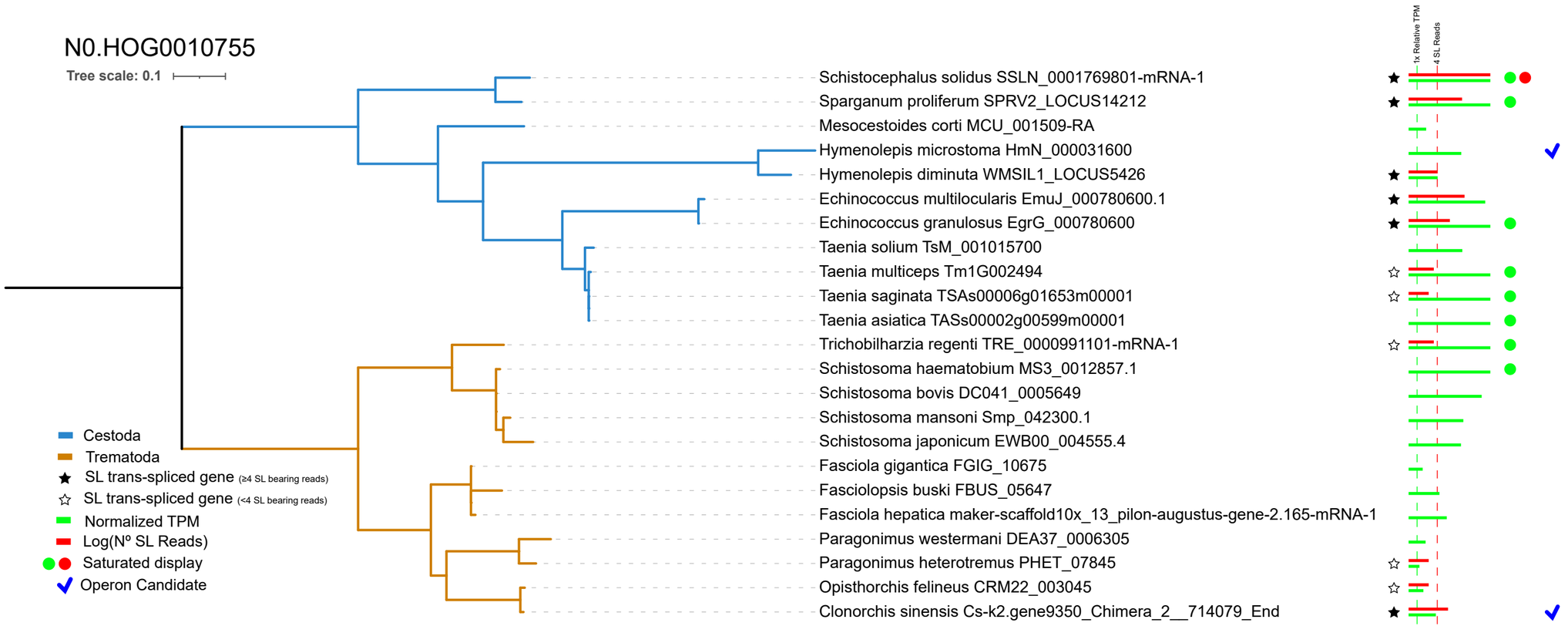
Normalized TPM
Log(Nº SL Reads)
Saturated display
Operon Candidate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Hymenolepis diminuta WMSIL1_LOCUS5426
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Echinococcus granulosus EgrG_000780600
Taenia solium TsM_001015700
Taenia multiceps Tm1G002494
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Taenia asiatica TASs00002g00599m00001
Trichobilharzia regenti TRE_0000991101-mRNA-1
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Schistosoma bovis DC041_0005649
Schistosoma mansoni Smp_042300.1
Schistosoma japonicum EWB00_004555.4
Fasciola gigantica FGIG_10675
Fasciolopsis buski FBUS_05647
Fasciola hepatica maker-scaffold10x_13_pilon-augustus-gene-2.165-mRNA-1
Paragonimus westermani DEA37_0006305
Paragonimus heterotremus PHET_07845
Opisthorchis felineus CRM22_003045
Clonorchis sinensis Cs-k2.gene9350_Chimera_2__714079_End
Cestoda
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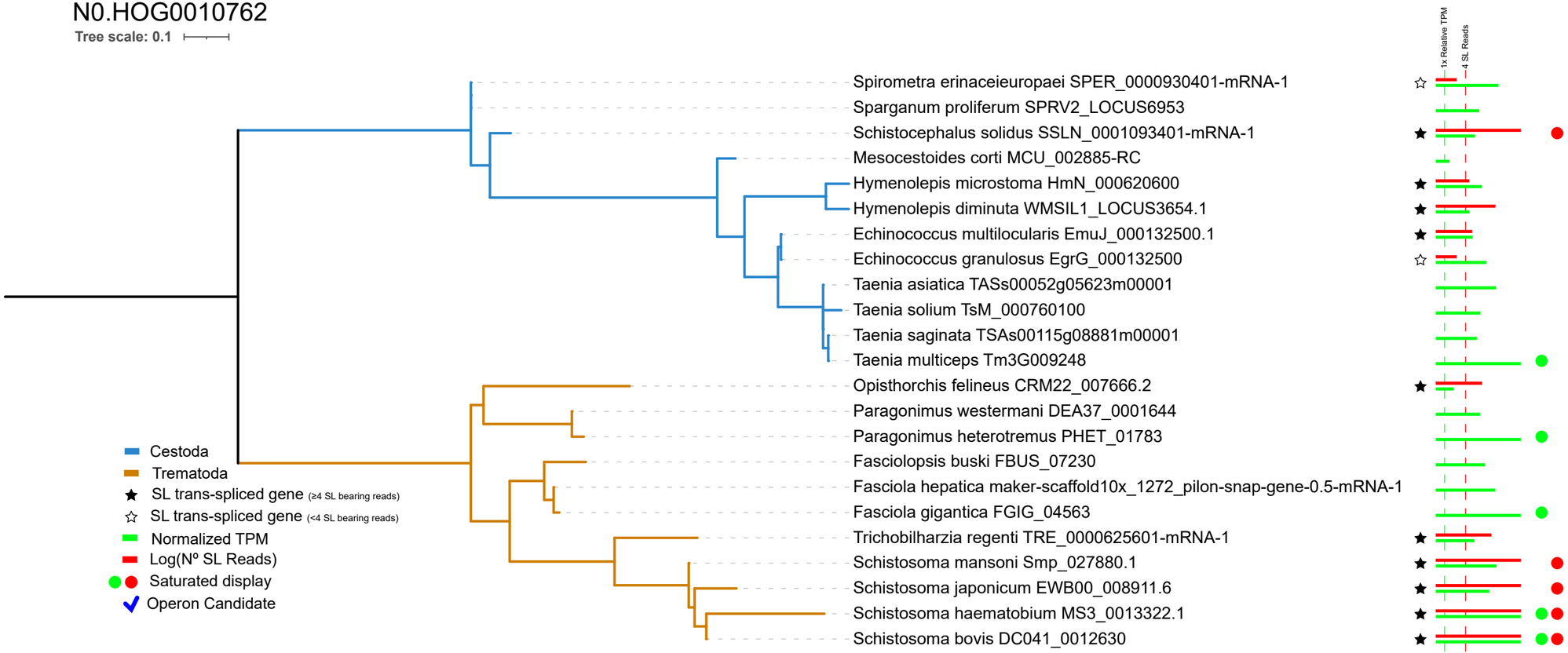
Normalized TPM
Log(Nº SL Reads)
Saturated display
Operon Candidate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Hymenolepis diminuta WMSIL1_LOCUS3654.1
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Echinococcus granulosus EgrG_000132500
Taenia asiatica TASs00052g05623m00001
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Taenia saginata TSAs00115g08881m00001
Taenia multiceps Tm3G009248
Opisthorchis felineus CRM22_007666.2
Paragonimus westermani DEA37_0001644
Paragonimus heterotremus PHET_01783
Fasciolopsis buski FBUS_07230
Fasciola hepatica maker-scaffold10x_1272_pilon-snap-gene-0.5-mRNA-1
Fasciola gigantica FGIG_04563
Trichobilharzia regenti TRE_0000625601-mRNA-1
Schistosoma mansoni Smp_027880.1
Schistosoma japonicum EWB00_008911.6
Schistosoma haematobium MS3_0013322.1
Schistosoma bovis DC041_0012630
Cestoda
Trematoda
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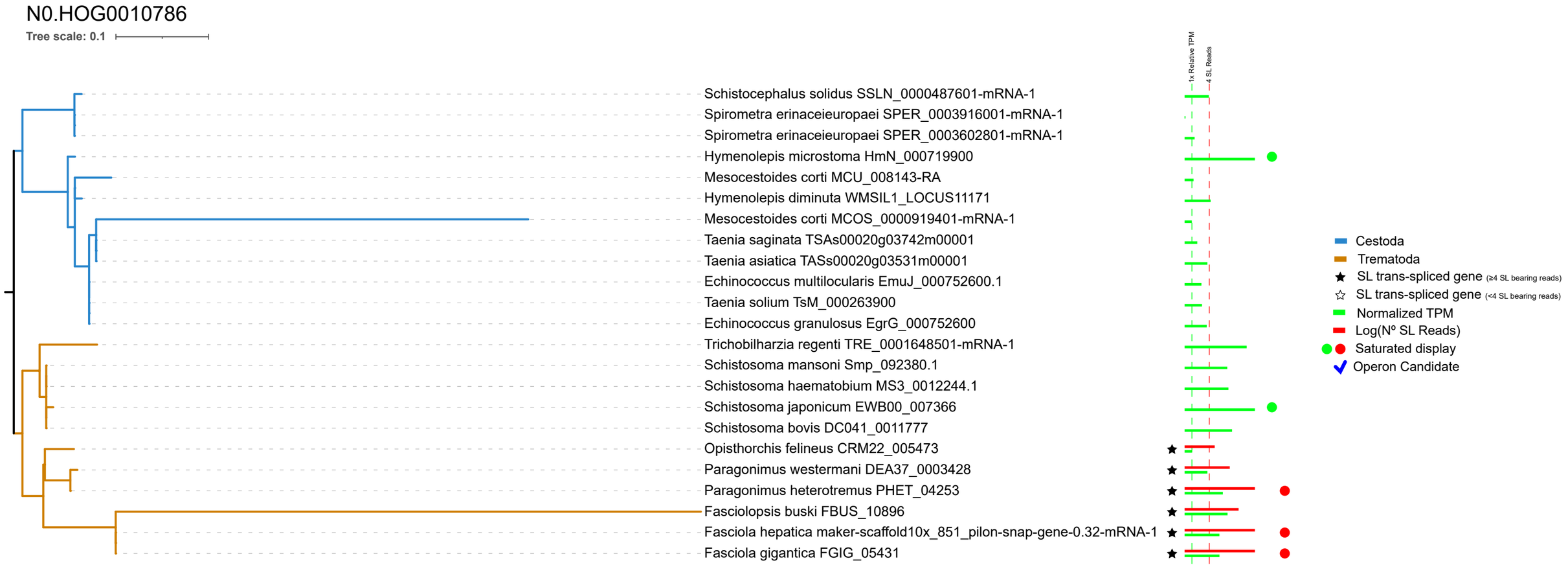
Normalized TPM
Log(Nº SL Reads)
Saturated display
Operon Candidate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Hymenolepis microstoma HmN_000719900
Mesocestoides corti MCU_008143-RA
Hymenolepis diminuta WMSIL1_LOCUS11171
Mesocestoides corti MCOS_0000919401-mRNA-1
Taenia saginata TSAs00020g03742m00001
Taenia asiatica TASs00020g03531m00001
Echinococcus multilocularis EmuJ_000752600.1
Taenia solium TsM_000263900
Echinococcus granulosus EgrG_000752600
Trichobilharzia regenti TRE_0001648501-mRNA-1
Schistosoma mansoni Smp_092380.1
Schistosoma haematobium MS3_0012244.1
Schistosoma japonicum EWB00_007366
Schistosoma bovis DC041_0011777
Opisthorchis felineus CRM22_005473
Paragonimus westermani DEA37_0003428
Paragonimus heterotremus PHET_04253
Fasciolopsis buski FBUS_10896
Fasciola hepatica maker-scaffold10x_851_pilon-snap-gene-0.32-mRNA-1
Fasciola gigantica FGIG_05431
Cestoda
Trematoda
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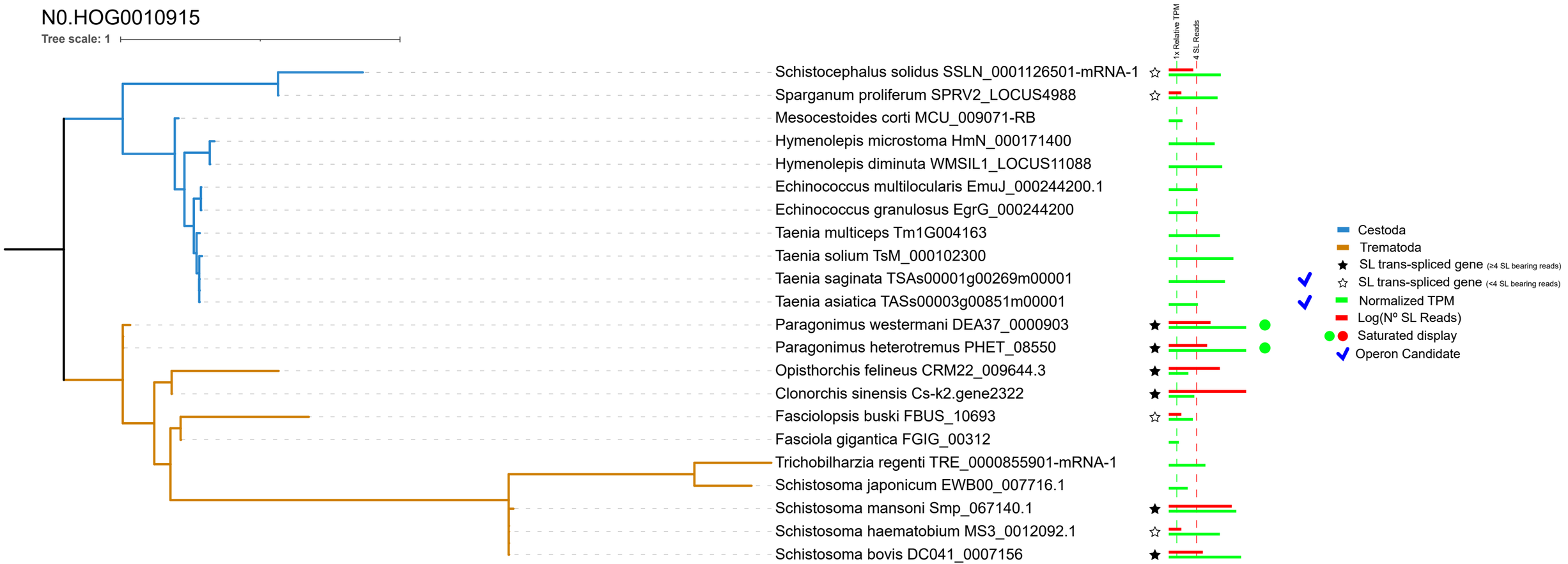
Normalized TPM
Log(Nº SL Reads)
Saturated display
Operon Candidate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Hymenolepis diminuta WMSIL1_LOCUS11088
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Echinococcus granulosus EgrG_000244200
Taenia multiceps Tm1G004163
Taenia solium TsM_000102300
Taenia saginata TSAs00001g00269m00001
Taenia asiatica TASs00003g00851m00001
Paragonimus westermani DEA37_0000903
Paragonimus heterotremus PHET_08550
Opisthorchis felineus CRM22_009644.3
Clonorchis sinensis Cs-k2.gene2322
Fasciolopsis buski FBUS_10693
Fasciola gigantica FGIG_00312
Trichobilharzia regenti TRE_0000855901-mRNA-1
Schistosoma japonicum EWB00_007716.1
Schistosoma mansoni Smp_067140.1
Schistosoma haematobium MS3_0012092.1
Schistosoma bovis DC041_0007156
1x Relative TPM
4 SL Reads
Cestoda
Trematoda
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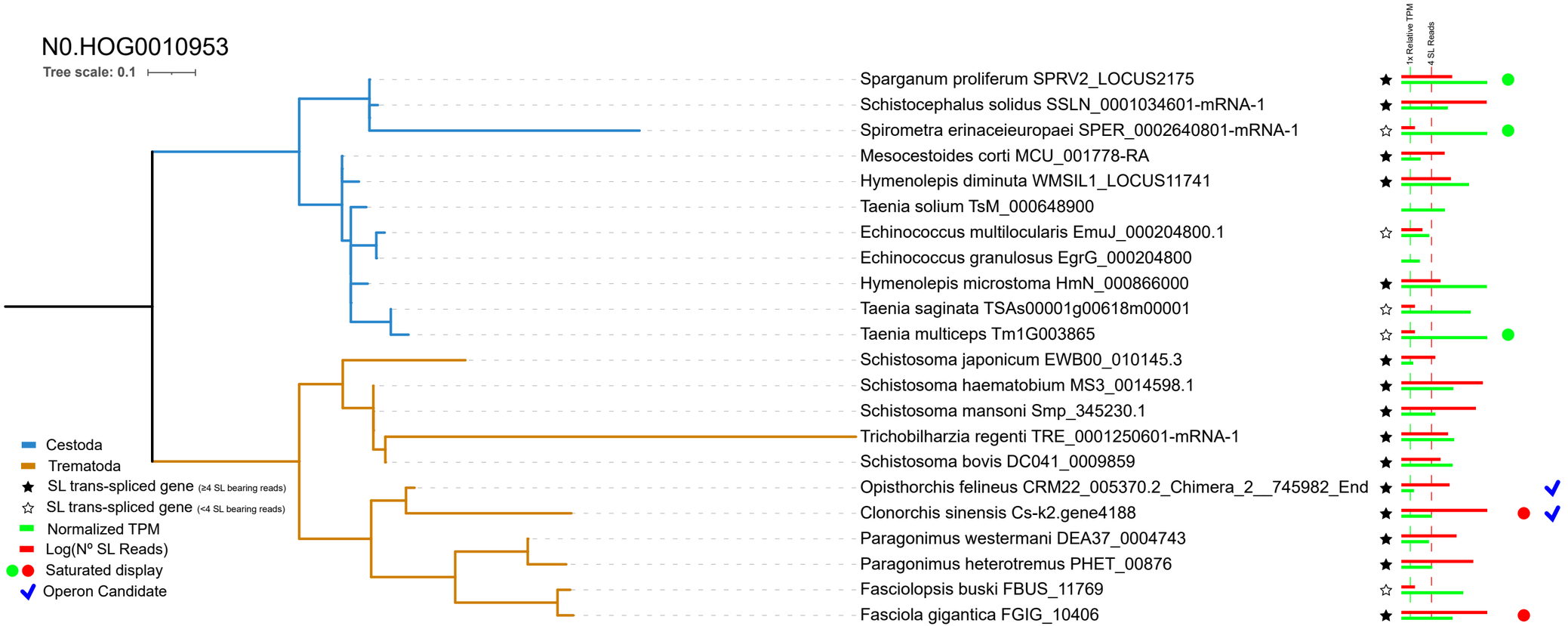
SL trans-spliced gene (<4 SL bearing reads)
Normalized TPM
Log(Nº SL Reads)
Saturated display
Operon Candidate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Mesocestoides corti MCU_001778-RA
Hymenolepis diminuta WMSIL1_LOCUS11741
Taenia solium TsM_000648900
Echinococcus multilocularis EmuJ_000204800.1
Echinococcus granulosus EgrG_000204800
Hymenolepis microstoma HmN_000866000
Taenia saginata TSAs00001g00618m00001
Taenia multiceps Tm1G003865
Schistosoma japonicum EWB00_010145.3
Schistosoma haematobium MS3_0014598.1
Schistosoma mansoni Smp_345230.1
Trichobilharzia regenti TRE_0001250601-mRNA-1
Schistosoma bovis DC041_0009859
Opisthorchis felineus CRM22_005370.2_Chimera_2__745982_End
Clonorchis sinensis Cs-k2.gene4188
Paragonimus westermani DEA37_0004743
Paragonimus heterotremus PHET_00876
Fasciolopsis buski FBUS_11769
Fasciola gigantica FGIG_10406
Cestoda
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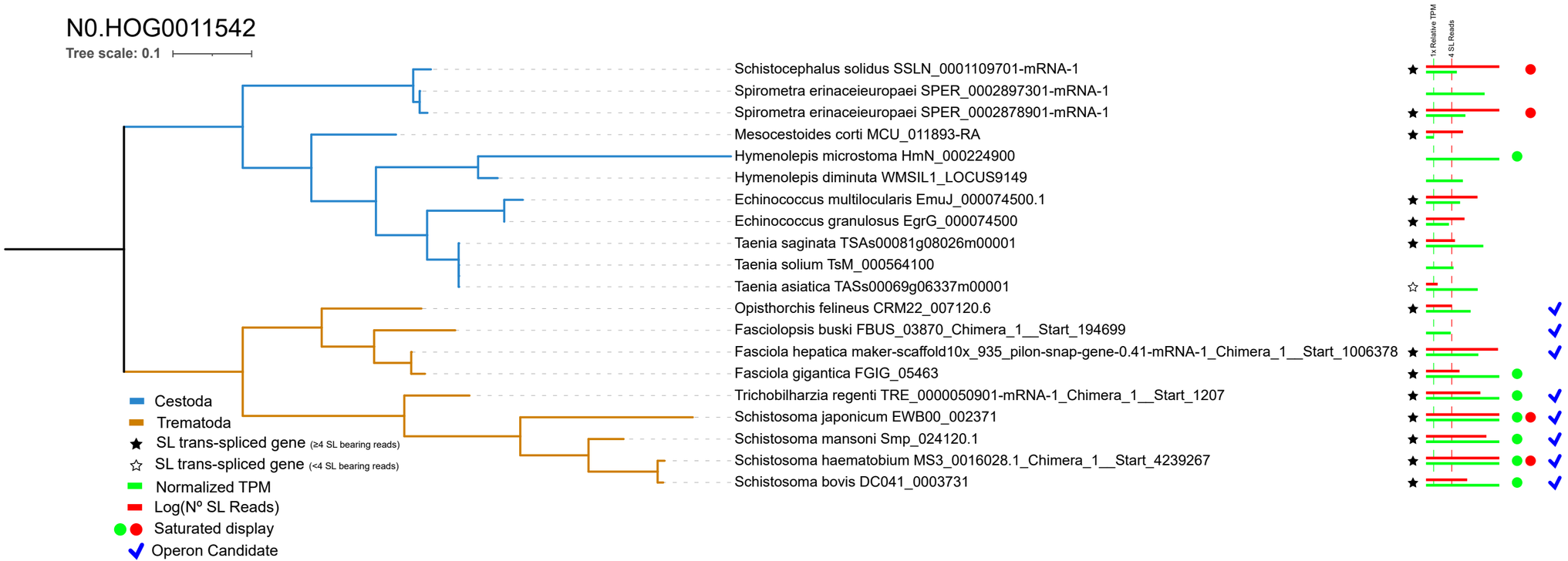
Normalized TPM
Log(Nº SL Reads)
Saturated display
Operon Candidate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Mesocestoides corti MCU_011893-RA
Hymenolepis microstoma HmN_000224900
Hymenolepis diminuta WMSIL1_LOCUS9149
Echinococcus multilocularis EmuJ_000074500.1
Echinococcus granulosus EgrG_000074500
Taenia saginata TSAs00081g08026m00001
Taenia solium TsM_000564100
Taenia asiatica TASs00069g06337m00001
Opisthorchis felineus CRM22_007120.6
Fasciolopsis buski FBUS_03870_Chimera_1__Start_194699
Fasciola hepatica maker-scaffold10x_935_pilon-snap-gene-0.41-mRNA-1_Chimera_1__Start_1006378
Fasciola gigantica FGIG_05463
Trichobilharzia regenti TRE_0000050901-mRNA-1_Chimera_1__Start_1207
Schistosoma japonicum EWB00_002371
Schistosoma mansoni Smp_024120.1
Schistosoma haematobium MS3_0016028.1_Chimera_1__Start_4239267
Schistosoma bovis DC041_0003731
Cestoda
Trematoda
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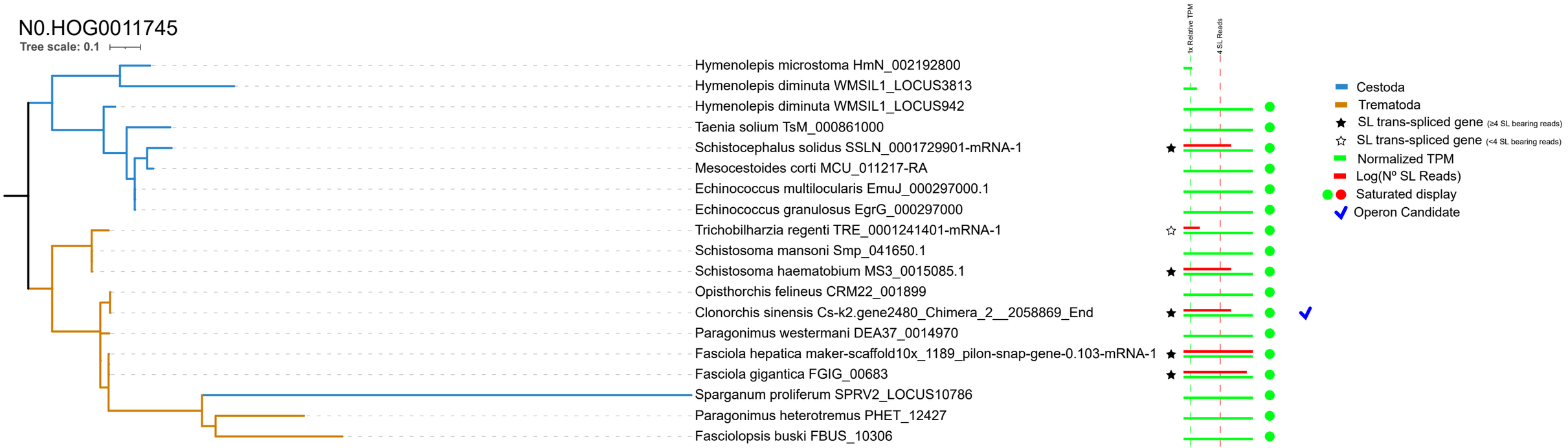
SL trans-spliced gene (<4 SL bearing reads)
Normalized TPM
Log(Nº SL Reads)
Saturated display
Operon Candidate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Taenia solium TsM_000861000
Schistocephalus solidus SSLN_0001729901-mRNA-1
Mesocestoides corti MCU_011217-RA
Echinococcus multilocularis EmuJ_000297000.1
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Trichobilharzia regenti TRE_0001241401-mRNA-1
Schistosoma mansoni Smp_041650.1
Schistosoma haematobium MS3_0015085.1
Opisthorchis felineus CRM22_001899
Clonorchis sinensis Cs-k2.gene2480_Chimera_2__2058869_End
Paragonimus westermani DEA37_0014970
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Sparganum proliferum SPRV2_LOCUS10786
Paragonimus heterotremus PHET_12427
Fasciolopsis buski FBUS_10306
1x Relative TPM
4 SL Reads
Cestoda
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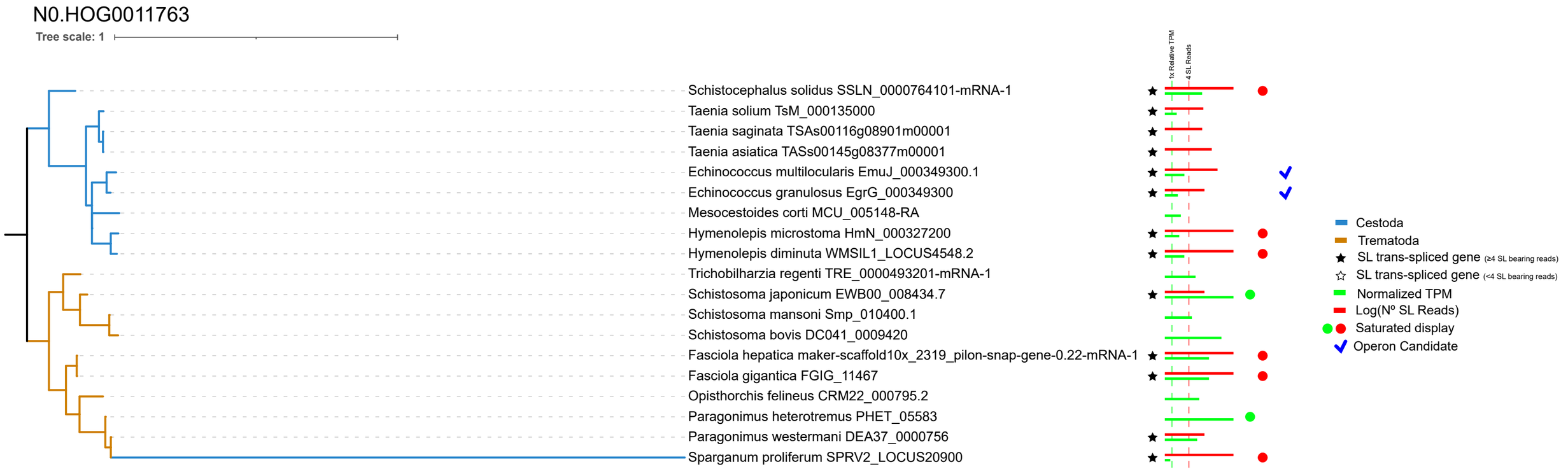
Operon Candidate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Mesocestoides corti MCU_005148-RA
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Opisthorchis felineus CRM22_000795.2
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1x Relative TPM
4 SL Reads
Cestoda
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Normalized TPM
Log(Nº SL Reads)
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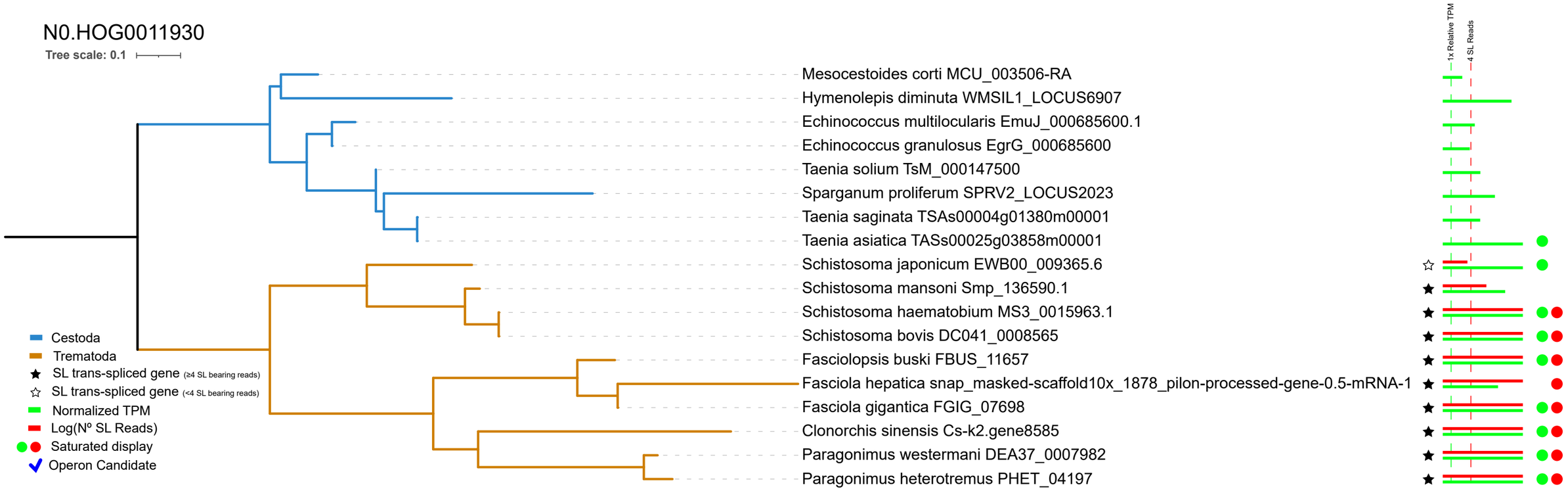
Operon Candidate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Sparganum proliferum SPRV2_LOCUS2023
Taenia saginata TSAs00004g01380m00001
Taenia asiatica TASs00025g03858m00001
Schistosoma japonicum EWB00_009365.6
Schistosoma mansoni Smp_136590.1
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Schistosoma bovis DC041_0008565
Fasciolopsis buski FBUS_11657
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Fasciola gigantica FGIG_07698
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Paragonimus westermani DEA37_0007982
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1x Relative TPM
4 SL Reads
Cestoda
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Log(Nº SL Reads)
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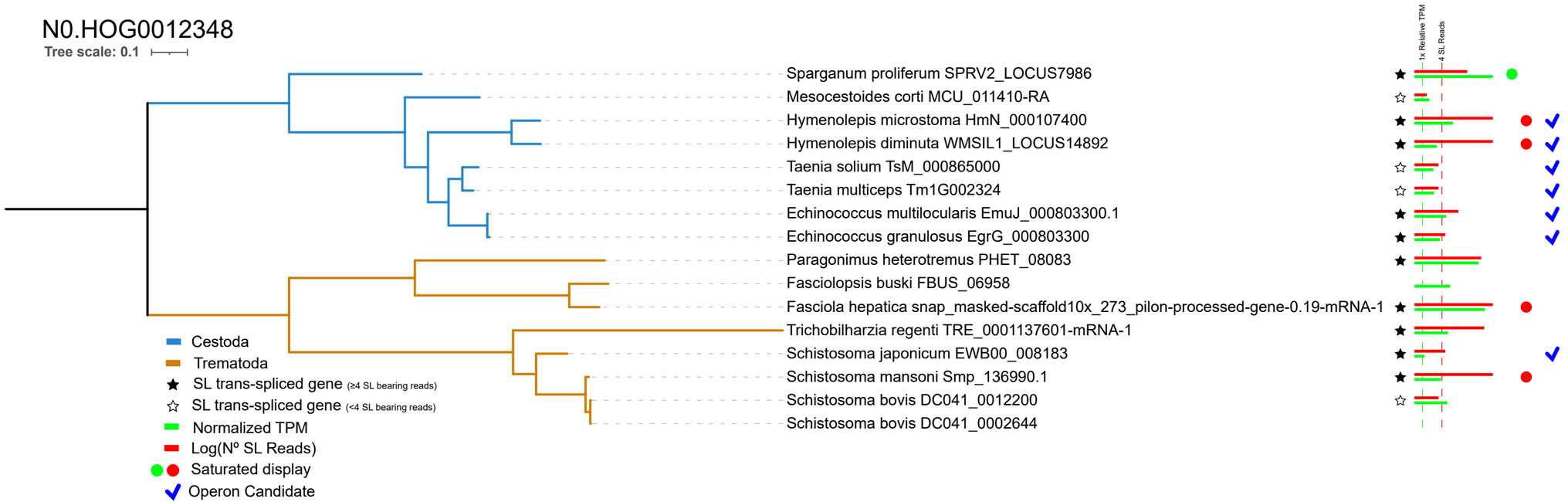
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Hymenolepis diminuta WMSIL1_LOCUS14892
Taenia solium TsM_000865000
Taenia multiceps Tm1G002324
Echinococcus multilocularis EmuJ_000803300.1
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Paragonimus heterotremus PHET_08083
Fasciolopsis buski FBUS_06958
Fasciola hepatica snap_masked-scaffold10x_273_pilon-processed-gene-0.19-mRNA-1
Trichobilharzia regenti TRE_0001137601-mRNA-1
Schistosoma japonicum EWB00_008183
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Cestoda
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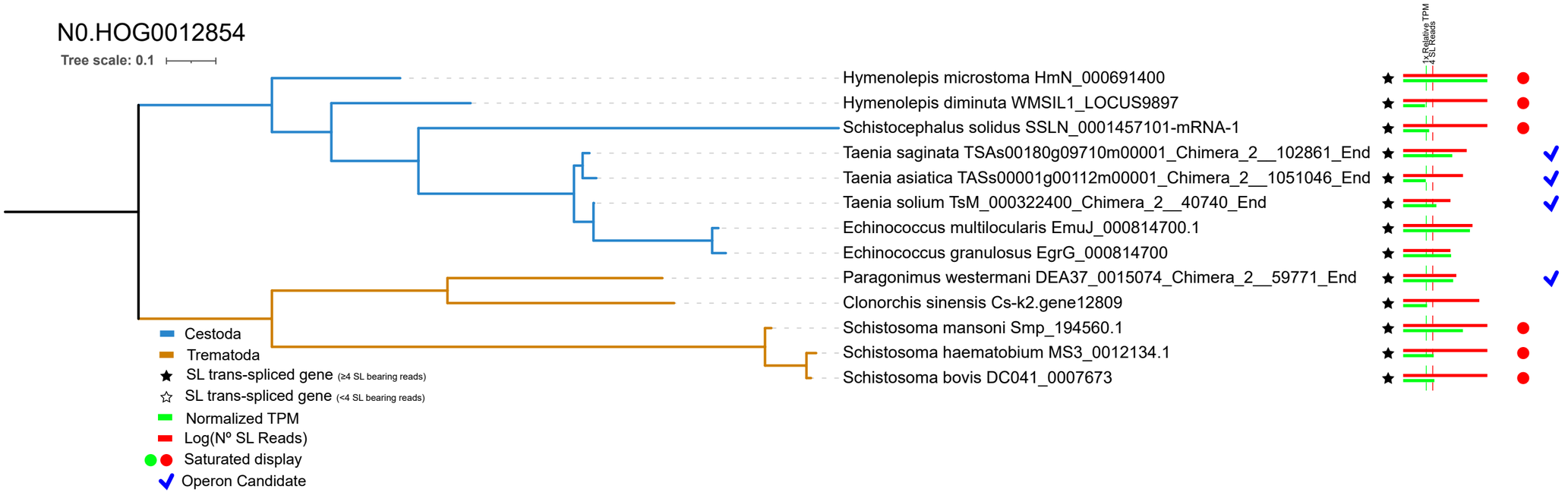
SL trans-spliced gene (<4 SL bearing reads)
Normalized TPM
Log(Nº SL Reads)
Saturated display
Operon Candidate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Taenia saginata TSAs00180g09710m00001_Chimera_2__102861_End
Taenia asiatica TASs00001g00112m00001_Chimera_2__1051046_End
Taenia solium TsM_000322400_Chimera_2__40740_End
Echinococcus multilocularis EmuJ_000814700.1
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Paragonimus westermani DEA37_0015074_Chimera_2__59771_End
Clonorchis sinensis Cs-k2.gene12809
Schistosoma mansoni Smp_194560.1
Schistosoma haematobium MS3_0012134.1
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Cestoda
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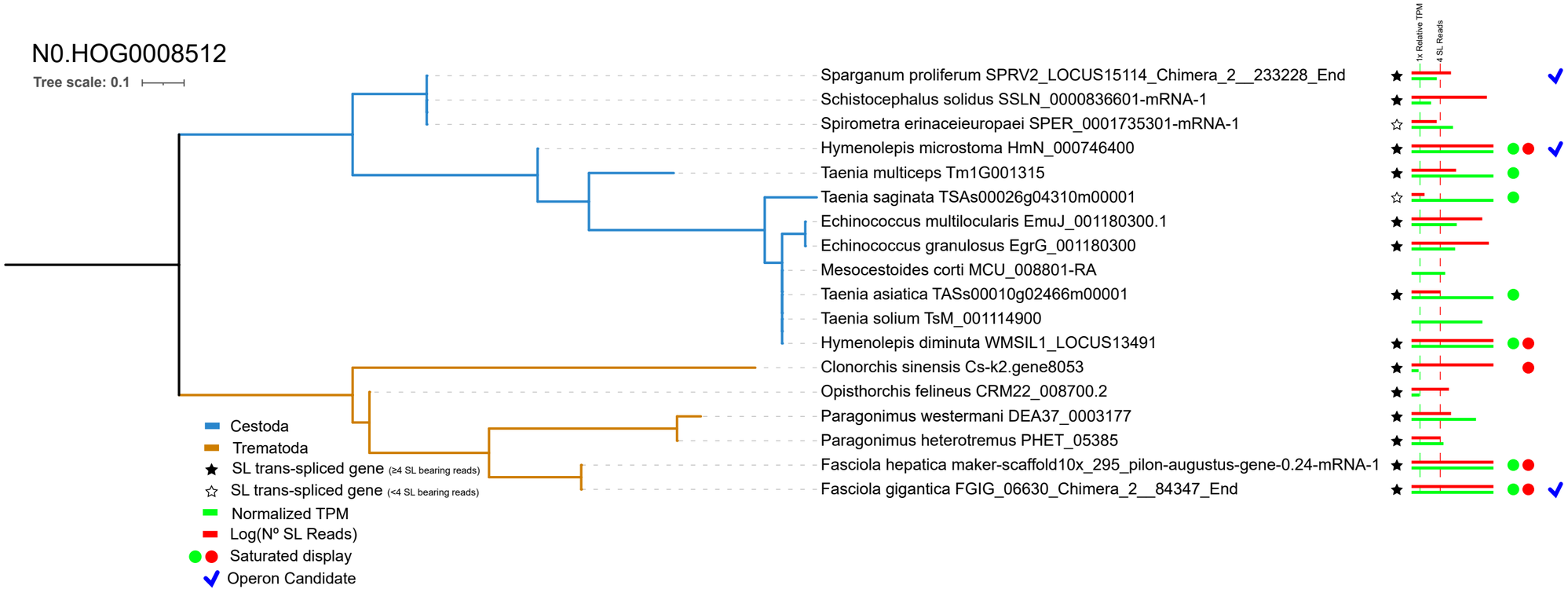
Normalized TPM
Log(Nº SL Reads)
Saturated display
Operon Candidate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Spirometra erinaceieuropaei SPER_0001735301-mRNA-1
Hymenolepis microstoma HmN_000746400
Taenia multiceps Tm1G001315
Taenia saginata TSAs00026g04310m00001
Echinococcus multilocularis EmuJ_001180300.1
Echinococcus granulosus EgrG_001180300
Mesocestoides corti MCU_008801-RA
Taenia asiatica TASs00010g02466m00001
Taenia solium TsM_001114900
Hymenolepis diminuta WMSIL1_LOCUS13491
Clonorchis sinensis Cs-k2.gene8053
Opisthorchis felineus CRM22_008700.2
Paragonimus westermani DEA37_0003177
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Fasciola hepatica maker-scaffold10x_295_pilon-augustus-gene-0.24-mRNA-1
Fasciola gigantica FGIG_06630_Chimera_2__84347_End
Cestoda
Trematoda
SL trans-spliced gene (≥4 SL bearing reads)
SL trans-spliced gene (<4 SL bearing reads)
Normalized TPM
Log(Nº SL Reads)
Saturated display
Operon Candidate