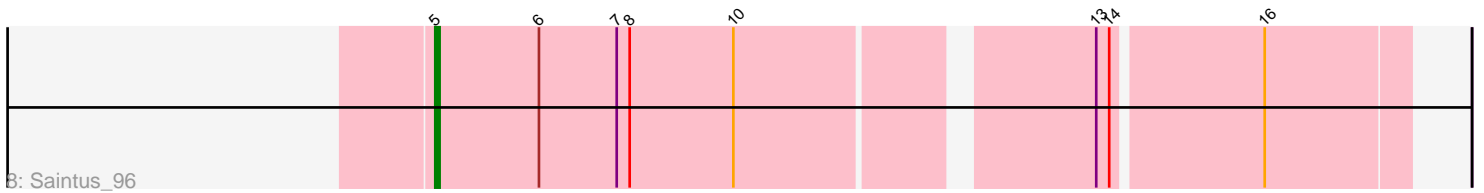
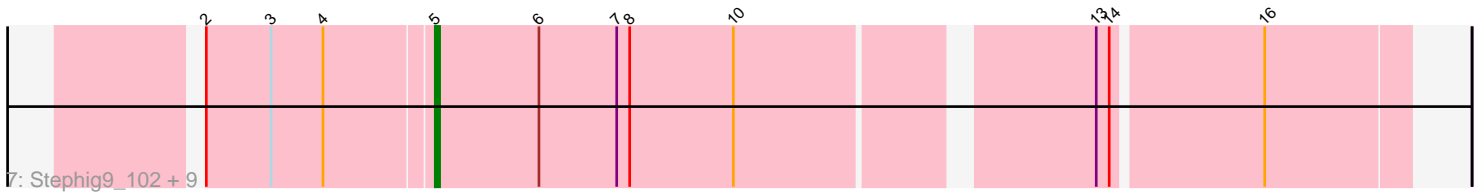
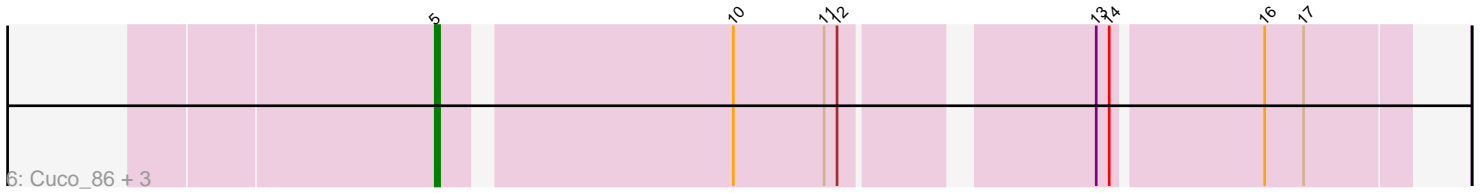
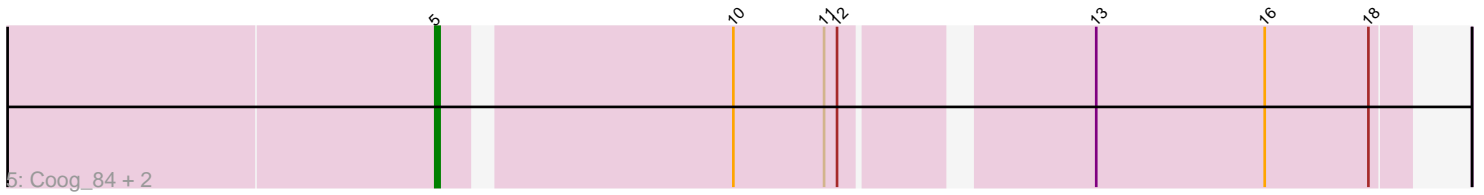
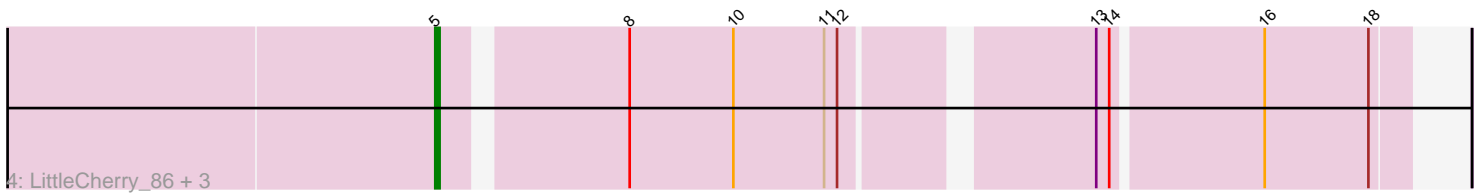
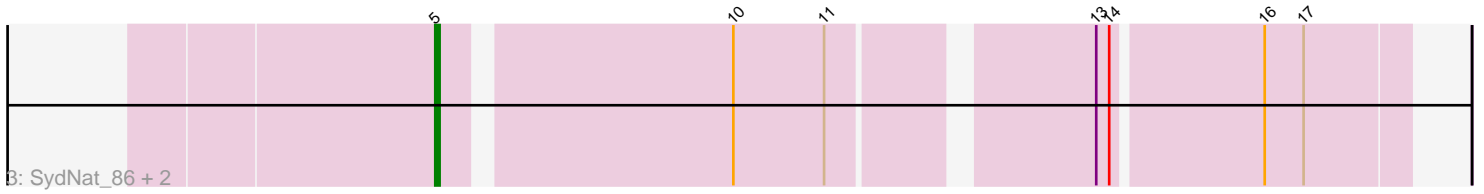
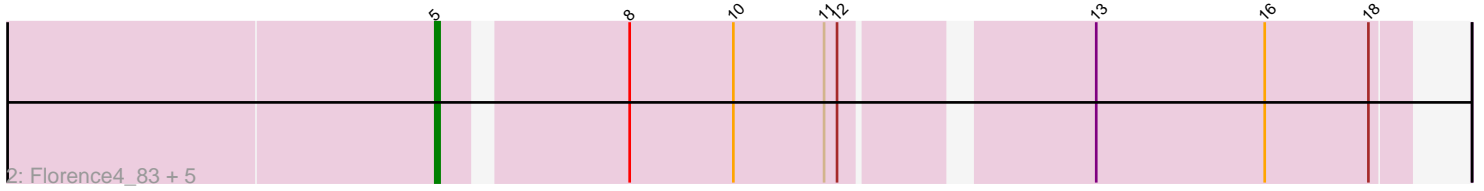
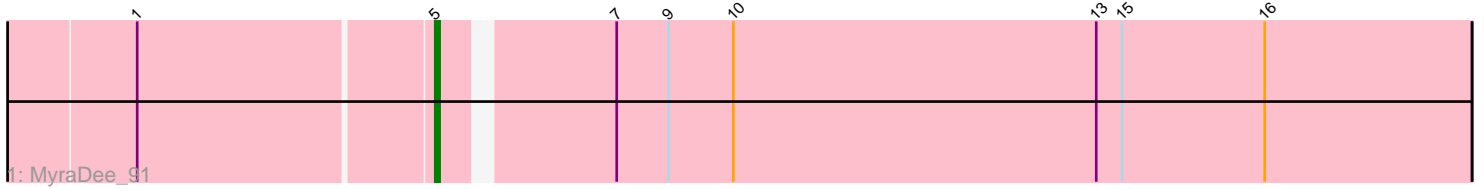


Pham 311862



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 311862 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311862 has 32 members, 3 are drafts.

Phages represented in each track:

- Track 1 : MyraDee_91
- Track 2 : Florence4_83, Prinashe11_87, Bonamassa_89, Swirley_87, Twigg_89, Florence1_85
- Track 3 : SydNat_86, Zolita_85, Ghoulboy_86
- Track 4 : LittleCherry_86, Milcery_86, Tarynearal_89, George_83
- Track 5 : Coog_84, Midas2_84, HuhtaEnerson15_85
- Track 6 : Cuco_86, Theia_87, MarysWell_88, Dublin_87
- Track 7 : Stephig9_102, Smeadley_101, Caitlin_98, Danforth_100, Roary_101, Groundhog_96, Expelliarmus_96, Astro_100, Dixon_100, NearlyHeadless_102
- Track 8 : Saintus_96

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 5, it was called in 29 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Astro_100, Bonamassa_89, Caitlin_98, Coog_84, Cuco_86, Danforth_100, Dixon_100, Dublin_87, Expelliarmus_96, Florence1_85, Florence4_83, George_83, Ghoulboy_86, Groundhog_96, HuhtaEnerson15_85, LittleCherry_86, MarysWell_88, Midas2_84, Milcery_86, MyraDee_91, NearlyHeadless_102, Prinashe11_87, Roary_101, Saintus_96, Smeadley_101, Stephig9_102, Swirley_87, SydNat_86, Tarynearal_89, Theia_87, Twigg_89, Zolita_85,

Genes that have the "Most Annotated" start but do not call it:

-

Genes that do not have the "Most Annotated" start:

-

Summary by start number:

Start 5:

- Found in 32 of 32 (100.0%) of genes in pham

- Manual Annotations of this start: 29 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Astro_100 (A8), Bonamassa_89 (A5), Caitlin_98 (A8), Coog_84 (A5), Cuco_86 (A5), Danforth_100 (A8), Dixon_100 (A8), Dublin_87 (A5), Expelliarmus_96 (A8), Florence1_85 (A5), Florence4_83 (A5), George_83 (A5), Ghoulboy_86 (A5), Groundhog_96 (A8), HuhtaEnerson15_85 (A5), LittleCherry_86 (A5), MarysWell_88 (A5), Midas2_84 (A5), Milcery_86 (A5), MyraDee_91 (A18), NearlyHeadless_102 (A8), Prinashe11_87 (A5), Roary_101 (A8), Saintus_96 (A8), Smeadley_101 (A8), Stephig9_102 (A8), Swirley_87 (A5), SydNat_86 (A5), Tarynearal_89 (A5), Theia_87 (A5), Twigg_89 (A5), Zolita_85 (A5),

Summary by clusters:

There are 3 clusters represented in this pham: A8, A5, A18,

Info for manual annotations of cluster A18:

- Start number 5 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A5:

- Start number 5 was manually annotated 17 times for cluster A5.

Info for manual annotations of cluster A8:

- Start number 5 was manually annotated 11 times for cluster A8.

Gene Information:

Gene: Astro_100 Start: 51065, Stop: 50853, Start Num: 5

Candidate Starts for Astro_100:

(2, 51116), (3, 51101), (4, 51089), (Start: 5 @51065 has 29 MA's), (6, 51041), (7, 51023), (8, 51020), (10, 50996), (13, 50921), (14, 50918), (16, 50885),

Gene: Bonamassa_89 Start: 49586, Stop: 49377, Start Num: 5

Candidate Starts for Bonamassa_89:

(Start: 5 @49586 has 29 MA's), (8, 49547), (10, 49523), (11, 49502), (12, 49499), (13, 49448), (16, 49409), (18, 49385),

Gene: Caitlin_98 Start: 50763, Stop: 50551, Start Num: 5

Candidate Starts for Caitlin_98:

(2, 50814), (3, 50799), (4, 50787), (Start: 5 @50763 has 29 MA's), (6, 50739), (7, 50721), (8, 50718), (10, 50694), (13, 50619), (14, 50616), (16, 50583),

Gene: Coog_84 Start: 49619, Stop: 49410, Start Num: 5

Candidate Starts for Coog_84:

(Start: 5 @49619 has 29 MA's), (10, 49556), (11, 49535), (12, 49532), (13, 49481), (16, 49442), (18, 49418),

Gene: Cuco_86 Start: 49369, Stop: 49163, Start Num: 5

Candidate Starts for Cuco_86:

(Start: 5 @49369 has 29 MA's), (10, 49306), (11, 49285), (12, 49282), (13, 49231), (14, 49228), (16, 49195), (17, 49186),

Gene: Danforth_100 Start: 51225, Stop: 51013, Start Num: 5

Candidate Starts for Danforth_100:

(2, 51276), (3, 51261), (4, 51249), (Start: 5 @51225 has 29 MA's), (6, 51201), (7, 51183), (8, 51180), (10, 51156), (13, 51081), (14, 51078), (16, 51045),

Gene: Dixon_100 Start: 50630, Stop: 50418, Start Num: 5

Candidate Starts for Dixon_100:

(2, 50681), (3, 50666), (4, 50654), (Start: 5 @50630 has 29 MA's), (6, 50606), (7, 50588), (8, 50585), (10, 50561), (13, 50486), (14, 50483), (16, 50450),

Gene: Dublin_87 Start: 48678, Stop: 48472, Start Num: 5

Candidate Starts for Dublin_87:

(Start: 5 @48678 has 29 MA's), (10, 48615), (11, 48594), (12, 48591), (13, 48540), (14, 48537), (16, 48504), (17, 48495),

Gene: Expelliarmus_96 Start: 50844, Stop: 50632, Start Num: 5

Candidate Starts for Expelliarmus_96:

(2, 50895), (3, 50880), (4, 50868), (Start: 5 @50844 has 29 MA's), (6, 50820), (7, 50802), (8, 50799), (10, 50775), (13, 50700), (14, 50697), (16, 50664),

Gene: Florence1_85 Start: 48431, Stop: 48222, Start Num: 5

Candidate Starts for Florence1_85:

(Start: 5 @48431 has 29 MA's), (8, 48392), (10, 48368), (11, 48347), (12, 48344), (13, 48293), (16, 48254), (18, 48230),

Gene: Florence4_83 Start: 47496, Stop: 47287, Start Num: 5

Candidate Starts for Florence4_83:

(Start: 5 @47496 has 29 MA's), (8, 47457), (10, 47433), (11, 47412), (12, 47409), (13, 47358), (16, 47319), (18, 47295),

Gene: George_83 Start: 49989, Stop: 49783, Start Num: 5

Candidate Starts for George_83:

(Start: 5 @49989 has 29 MA's), (8, 49950), (10, 49926), (11, 49905), (12, 49902), (13, 49851), (14, 49848), (16, 49815), (18, 49791),

Gene: Ghoulboy_86 Start: 49594, Stop: 49388, Start Num: 5

Candidate Starts for Ghoulboy_86:

(Start: 5 @49594 has 29 MA's), (10, 49531), (11, 49510), (13, 49456), (14, 49453), (16, 49420), (17, 49411),

Gene: Groundhog_96 Start: 50900, Stop: 50688, Start Num: 5

Candidate Starts for Groundhog_96:

(2, 50951), (3, 50936), (4, 50924), (Start: 5 @50900 has 29 MA's), (6, 50876), (7, 50858), (8, 50855), (10, 50831), (13, 50756), (14, 50753), (16, 50720),

Gene: HuhtaEnerson15_85 Start: 49512, Stop: 49303, Start Num: 5

Candidate Starts for HuhtaEnerson15_85:

(Start: 5 @49512 has 29 MA's), (10, 49449), (11, 49428), (12, 49425), (13, 49374), (16, 49335), (18, 49311),

Gene: LittleCherry_86 Start: 49099, Stop: 48893, Start Num: 5

Candidate Starts for LittleCherry_86:

(Start: 5 @49099 has 29 MA's), (8, 49060), (10, 49036), (11, 49015), (12, 49012), (13, 48961), (14, 48958), (16, 48925), (18, 48901),

Gene: MarysWell_88 Start: 49867, Stop: 49661, Start Num: 5

Candidate Starts for MarysWell_88:

(Start: 5 @49867 has 29 MA's), (10, 49804), (11, 49783), (12, 49780), (13, 49729), (14, 49726), (16, 49693), (17, 49684),

Gene: Midas2_84 Start: 49619, Stop: 49410, Start Num: 5

Candidate Starts for Midas2_84:

(Start: 5 @49619 has 29 MA's), (10, 49556), (11, 49535), (12, 49532), (13, 49481), (16, 49442), (18, 49418),

Gene: Milcery_86 Start: 49395, Stop: 49189, Start Num: 5

Candidate Starts for Milcery_86:

(Start: 5 @49395 has 29 MA's), (8, 49356), (10, 49332), (11, 49311), (12, 49308), (13, 49257), (14, 49254), (16, 49221), (18, 49197),

Gene: MyraDee_91 Start: 48649, Stop: 48416, Start Num: 5

Candidate Starts for MyraDee_91:

(1, 48715), (Start: 5 @48649 has 29 MA's), (7, 48613), (9, 48601), (10, 48586), (13, 48502), (15, 48496), (16, 48463),

Gene: NearlyHeadless_102 Start: 50962, Stop: 50750, Start Num: 5

Candidate Starts for NearlyHeadless_102:

(2, 51013), (3, 50998), (4, 50986), (Start: 5 @50962 has 29 MA's), (6, 50938), (7, 50920), (8, 50917), (10, 50893), (13, 50818), (14, 50815), (16, 50782),

Gene: Prin Ashe11_87 Start: 49665, Stop: 49456, Start Num: 5

Candidate Starts for Prin Ashe11_87:

(Start: 5 @49665 has 29 MA's), (8, 49626), (10, 49602), (11, 49581), (12, 49578), (13, 49527), (16, 49488), (18, 49464),

Gene: Roary_101 Start: 51099, Stop: 50887, Start Num: 5

Candidate Starts for Roary_101:

(2, 51150), (3, 51135), (4, 51123), (Start: 5 @51099 has 29 MA's), (6, 51075), (7, 51057), (8, 51054), (10, 51030), (13, 50955), (14, 50952), (16, 50919),

Gene: Saintus_96 Start: 47806, Stop: 47594, Start Num: 5

Candidate Starts for Saintus_96:

(Start: 5 @47806 has 29 MA's), (6, 47782), (7, 47764), (8, 47761), (10, 47737), (13, 47662), (14, 47659), (16, 47626),

Gene: Smeadley_101 Start: 50966, Stop: 50754, Start Num: 5

Candidate Starts for Smeadley_101:

(2, 51017), (3, 51002), (4, 50990), (Start: 5 @50966 has 29 MA's), (6, 50942), (7, 50924), (8, 50921), (10, 50897), (13, 50822), (14, 50819), (16, 50786),

Gene: Stephig9_102 Start: 51292, Stop: 51080, Start Num: 5

Candidate Starts for Stephig9_102:

(2, 51343), (3, 51328), (4, 51316), (Start: 5 @51292 has 29 MA's), (6, 51268), (7, 51250), (8, 51247), (10, 51223), (13, 51148), (14, 51145), (16, 51112),

Gene: Swirley_87 Start: 48120, Stop: 47911, Start Num: 5

Candidate Starts for Swirley_87:

(Start: 5 @48120 has 29 MA's), (8, 48081), (10, 48057), (11, 48036), (12, 48033), (13, 47982), (16, 47943), (18, 47919),

Gene: SydNat_86 Start: 49603, Stop: 49397, Start Num: 5

Candidate Starts for SydNat_86:

(Start: 5 @49603 has 29 MA's), (10, 49540), (11, 49519), (13, 49465), (14, 49462), (16, 49429), (17, 49420),

Gene: Tarynearal_89 Start: 49555, Stop: 49349, Start Num: 5

Candidate Starts for Tarynearal_89:

(Start: 5 @49555 has 29 MA's), (8, 49516), (10, 49492), (11, 49471), (12, 49468), (13, 49417), (14, 49414), (16, 49381), (18, 49357),

Gene: Theia_87 Start: 49946, Stop: 49740, Start Num: 5

Candidate Starts for Theia_87:

(Start: 5 @49946 has 29 MA's), (10, 49883), (11, 49862), (12, 49859), (13, 49808), (14, 49805), (16, 49772), (17, 49763),

Gene: Twigg_89 Start: 49524, Stop: 49315, Start Num: 5

Candidate Starts for Twigg_89:

(Start: 5 @49524 has 29 MA's), (8, 49485), (10, 49461), (11, 49440), (12, 49437), (13, 49386), (16, 49347), (18, 49323),

Gene: Zolita_85 Start: 49586, Stop: 49380, Start Num: 5

Candidate Starts for Zolita_85:

(Start: 5 @49586 has 29 MA's), (10, 49523), (11, 49502), (13, 49448), (14, 49445), (16, 49412), (17, 49403),