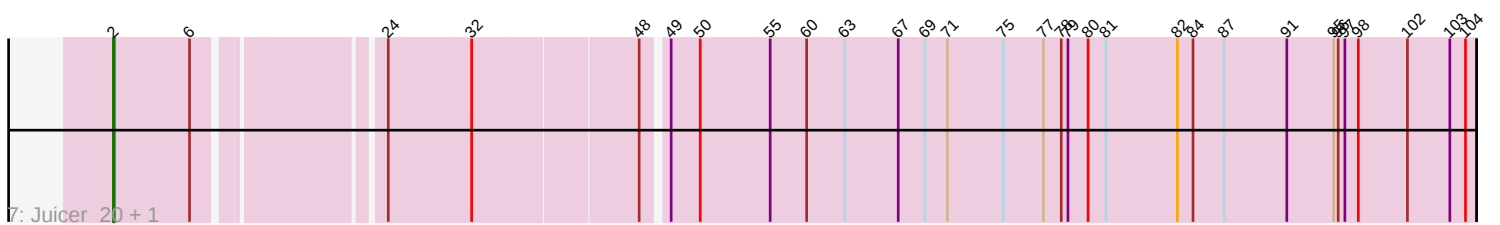
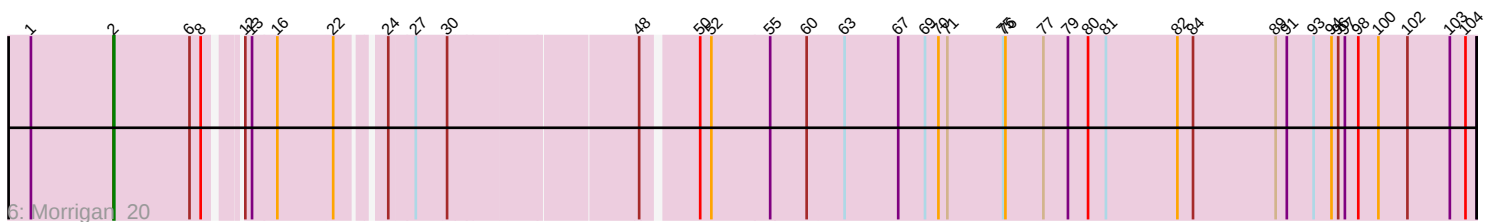
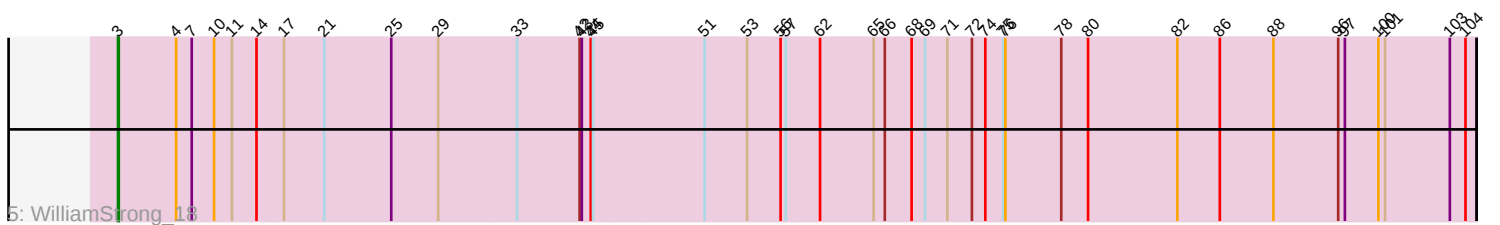
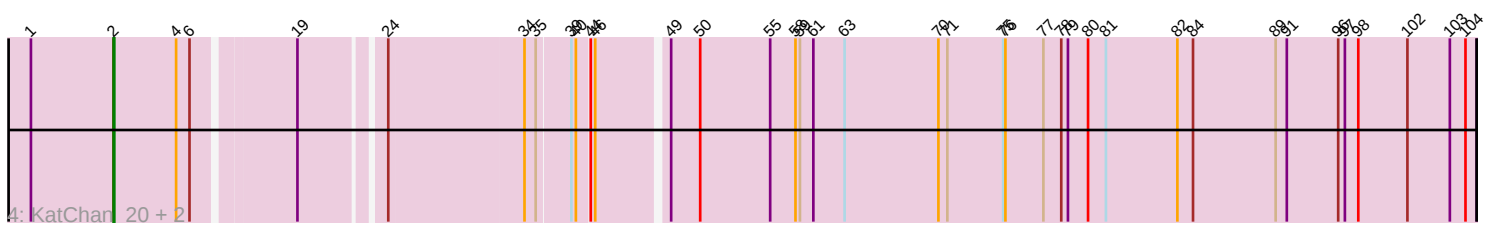
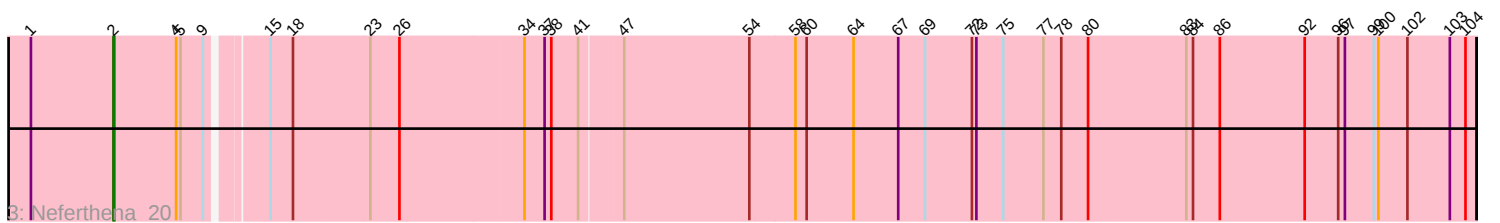
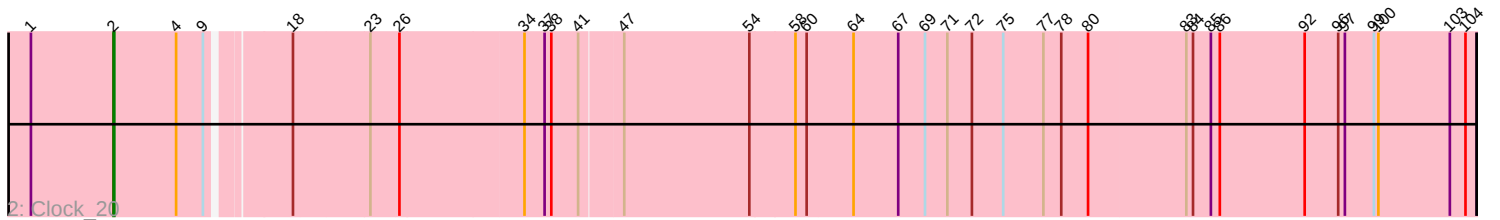
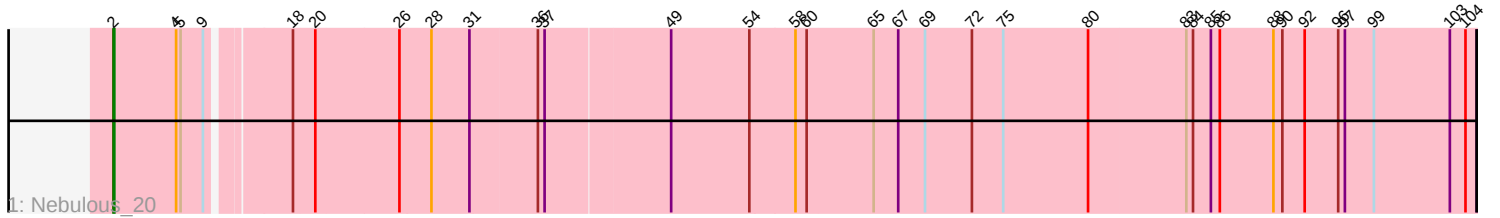


Pham 281120



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 281120 Report

This analysis was run 02/07/26 on database version 634.

Pham number 281120 has 10 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Nebulous_20
- Track 2 : Clock_20
- Track 3 : Neferthena_20
- Track 4 : KatChan_20, Luna18_20, Chepli_20
- Track 5 : WilliamStrong_18
- Track 6 : Morrigan_20
- Track 7 : Juicer_20, Jemerald_20

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

The start number called the most often in the published annotations is 2, it was called in 9 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chepli_20, Clock_20, Jemerald_20, Juicer_20, KatChan_20, Luna18_20, Morrigan_20, Nebulous_20, Neferthena_20,

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

-

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

- WilliamStrong_18,

Summary by start number:

Start 2:

- Found in 9 of 10 (90.0%) of genes in pham
- Manual Annotations of this start: 9 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chepli_20 (EA6), Clock_20 (EA5), Jemerald_20 (EA6), Juicer_20 (EA6), KatChan_20 (EA6), Luna18_20 (EA6), Morrigan_20 (EA6), Nebulous_20 (EA5), Neferthena_20 (EA5),

Start 3:

- Found in 1 of 10 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: WilliamStrong_18 (EA6),

Summary by clusters:

There are 2 clusters represented in this pham: EA5, EA6,

Info for manual annotations of cluster EA5:

- Start number 2 was manually annotated 3 times for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 2 was manually annotated 6 times for cluster EA6.
- Start number 3 was manually annotated 1 time for cluster EA6.

Gene Information:

Gene: Chepli_20 Start: 14522, Stop: 16246, Start Num: 2

Candidate Starts for Chepli_20:

(1, 14411), (Start: 2 @14522 has 9 MA's), (4, 14606), (6, 14621), (19, 14744), (24, 14840), (34, 15005), (35, 15020), (39, 15062), (40, 15068), (44, 15083), (46, 15089), (49, 15173), (50, 15212), (55, 15305), (58, 15338), (59, 15344), (61, 15362), (63, 15401), (70, 15527), (71, 15539), (75, 15614), (76, 15617), (77, 15668), (78, 15692), (79, 15701), (80, 15728), (81, 15752), (82, 15848), (84, 15869), (89, 15980), (91, 15992), (96, 16061), (97, 16070), (98, 16088), (102, 16154), (103, 16211), (104, 16232),

Gene: Clock_20 Start: 15276, Stop: 17048, Start Num: 2

Candidate Starts for Clock_20:

(1, 15165), (Start: 2 @15276 has 9 MA's), (4, 15360), (9, 15396), (18, 15492), (23, 15588), (26, 15624), (34, 15786), (37, 15813), (38, 15822), (41, 15858), (47, 15912), (54, 16080), (58, 16140), (60, 16155), (64, 16215), (67, 16275), (69, 16311), (71, 16341), (72, 16374), (75, 16416), (77, 16470), (78, 16494), (80, 16530), (83, 16659), (84, 16668), (85, 16692), (86, 16704), (92, 16818), (96, 16863), (97, 16872), (99, 16911), (100, 16917), (103, 17013), (104, 17034),

Gene: Jemerald_20 Start: 15479, Stop: 17197, Start Num: 2

Candidate Starts for Jemerald_20:

(Start: 2 @15479 has 9 MA's), (6, 15578), (24, 15791), (32, 15893), (48, 16097), (49, 16124), (50, 16163), (55, 16256), (60, 16304), (63, 16352), (67, 16424), (69, 16460), (71, 16490), (75, 16565), (77, 16619), (78, 16643), (79, 16652), (80, 16679), (81, 16703), (82, 16799), (84, 16820), (87, 16862), (91, 16943), (95, 17006), (96, 17012), (97, 17021), (98, 17039), (102, 17105), (103, 17162), (104, 17183),

Gene: Juicer_20 Start: 15479, Stop: 17197, Start Num: 2

Candidate Starts for Juicer_20:

(Start: 2 @15479 has 9 MA's), (6, 15578), (24, 15791), (32, 15893), (48, 16097), (49, 16124), (50, 16163), (55, 16256), (60, 16304), (63, 16352), (67, 16424), (69, 16460), (71, 16490), (75, 16565), (77, 16619), (78, 16643), (79, 16652), (80, 16679), (81, 16703), (82, 16799), (84, 16820), (87, 16862), (91, 16943), (95, 17006), (96, 17012), (97, 17021), (98, 17039), (102, 17105), (103, 17162), (104, 17183),

Gene: KatChan_20 Start: 14528, Stop: 16252, Start Num: 2

Candidate Starts for KatChan_20:

(1, 14417), (Start: 2 @14528 has 9 MA's), (4, 14612), (6, 14627), (19, 14750), (24, 14846), (34, 15011), (35, 15026), (39, 15068), (40, 15074), (44, 15089), (46, 15095), (49, 15179), (50, 15218), (55, 15311), (58, 15344), (59, 15350), (61, 15368), (63, 15407), (70, 15533), (71, 15545), (75, 15620), (76, 15623), (77, 15674), (78, 15698), (79, 15707), (80, 15734), (81, 15758), (82, 15854), (84, 15875), (89, 15986), (91, 15998), (96, 16067), (97, 16076), (98, 16094), (102, 16160), (103, 16217), (104, 16238),

Gene: Luna18_20 Start: 14528, Stop: 16252, Start Num: 2

Candidate Starts for Luna18_20:

(1, 14417), (Start: 2 @14528 has 9 MA's), (4, 14612), (6, 14627), (19, 14750), (24, 14846), (34, 15011), (35, 15026), (39, 15068), (40, 15074), (44, 15089), (46, 15095), (49, 15179), (50, 15218), (55, 15311), (58, 15344), (59, 15350), (61, 15368), (63, 15407), (70, 15533), (71, 15545), (75, 15620), (76, 15623), (77, 15674), (78, 15698), (79, 15707), (80, 15734), (81, 15758), (82, 15854), (84, 15875), (89, 15986), (91, 15998), (96, 16067), (97, 16076), (98, 16094), (102, 16160), (103, 16217), (104, 16238),

Gene: Morrigan_20 Start: 15432, Stop: 17150, Start Num: 2

Candidate Starts for Morrigan_20:

(1, 15321), (Start: 2 @15432 has 9 MA's), (6, 15531), (8, 15546), (12, 15579), (13, 15588), (16, 15621), (22, 15693), (24, 15744), (27, 15777), (30, 15816), (48, 16050), (50, 16116), (52, 16131), (55, 16209), (60, 16257), (63, 16305), (67, 16377), (69, 16413), (70, 16431), (71, 16443), (75, 16518), (76, 16521), (77, 16572), (79, 16605), (80, 16632), (81, 16656), (82, 16752), (84, 16773), (89, 16884), (91, 16896), (93, 16932), (94, 16956), (96, 16965), (97, 16974), (98, 16992), (100, 17019), (102, 17058), (103, 17115), (104, 17136),

Gene: Nebulous_20 Start: 15282, Stop: 17054, Start Num: 2

Candidate Starts for Nebulous_20:

(Start: 2 @15282 has 9 MA's), (4, 15366), (5, 15372), (9, 15402), (18, 15498), (20, 15525), (26, 15630), (28, 15672), (31, 15723), (36, 15810), (37, 15819), (49, 15981), (54, 16086), (58, 16146), (60, 16161), (65, 16248), (67, 16281), (69, 16317), (72, 16380), (75, 16422), (80, 16536), (83, 16665), (84, 16674), (85, 16698), (86, 16710), (88, 16782), (90, 16794), (92, 16824), (96, 16869), (97, 16878), (99, 16917), (103, 17019), (104, 17040),

Gene: Neferthema_20 Start: 15296, Stop: 17068, Start Num: 2

Candidate Starts for Neferthema_20:

(1, 15185), (Start: 2 @15296 has 9 MA's), (4, 15380), (5, 15386), (9, 15416), (15, 15482), (18, 15512), (23, 15608), (26, 15644), (34, 15806), (37, 15833), (38, 15842), (41, 15878), (47, 15932), (54, 16100), (58, 16160), (60, 16175), (64, 16235), (67, 16295), (69, 16331), (72, 16394), (73, 16400), (75, 16436), (77, 16490), (78, 16514), (80, 16550), (83, 16679), (84, 16688), (86, 16724), (92, 16838), (96, 16883), (97, 16892), (99, 16931), (100, 16937), (102, 16976), (103, 17033), (104, 17054),

Gene: WilliamStrong_18 Start: 15151, Stop: 16965, Start Num: 3

Candidate Starts for WilliamStrong_18:

(Start: 3 @15151 has 1 MA's), (4, 15229), (7, 15250), (10, 15280), (11, 15304), (14, 15337), (17, 15373), (21, 15424), (25, 15514), (29, 15577), (33, 15682), (42, 15766), (43, 15769), (44, 15781), (45, 15784), (51, 15931), (53, 15988), (56, 16033), (57, 16039), (62, 16084), (65, 16156), (66, 16171), (68, 16207), (69, 16225), (71, 16255), (72, 16288), (74, 16306), (75, 16330), (76, 16333), (78, 16408), (80, 16444), (82, 16564), (86, 16621), (88, 16693), (96, 16780), (97, 16789), (100, 16834), (101, 16843), (103, 16930), (104, 16951),