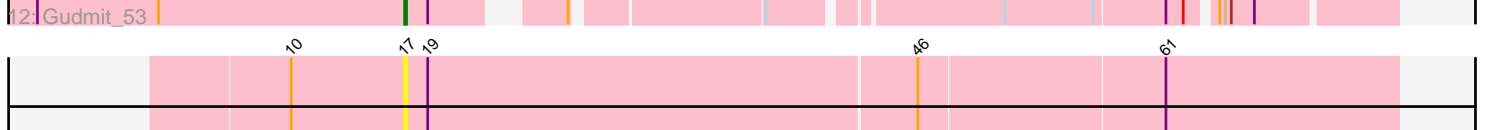
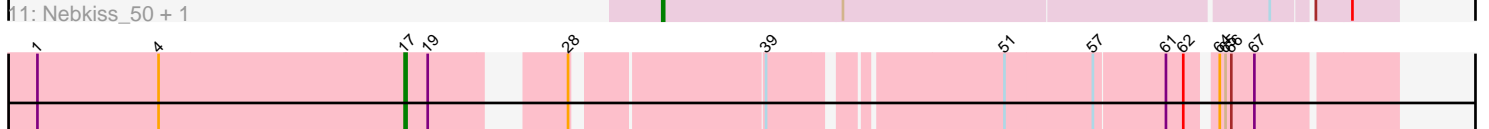
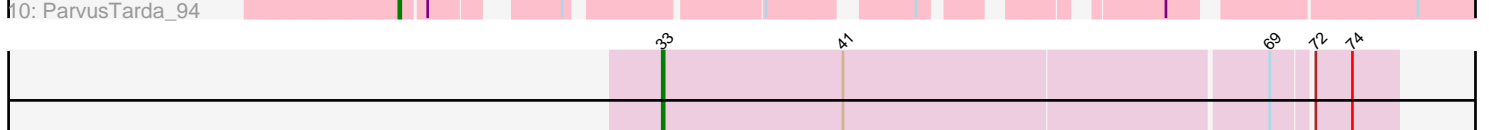
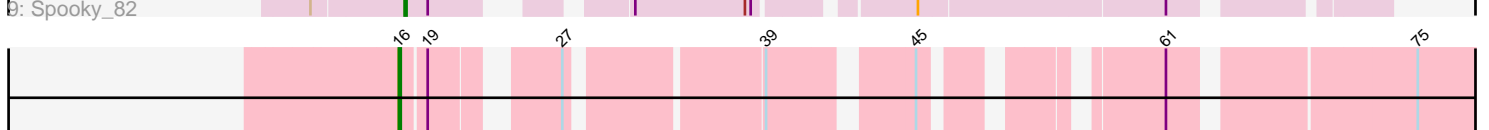
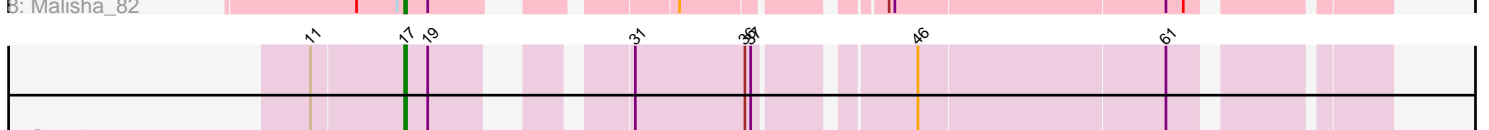
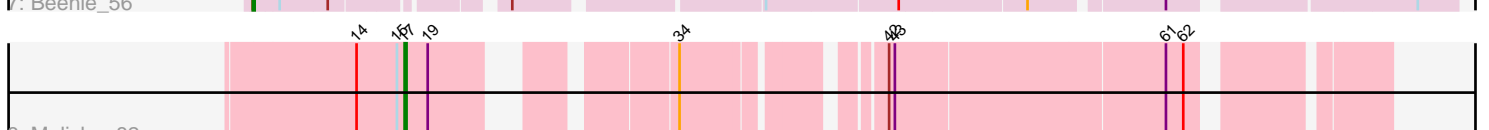
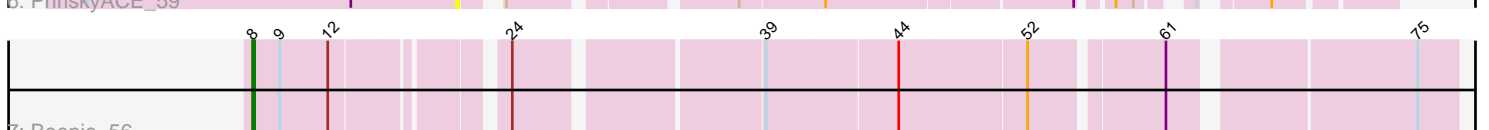
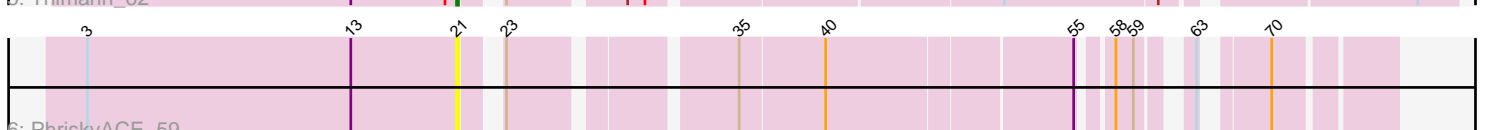
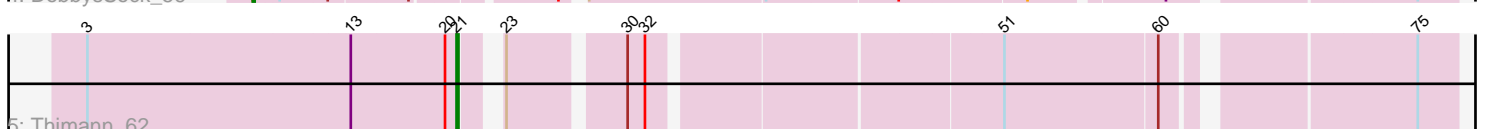
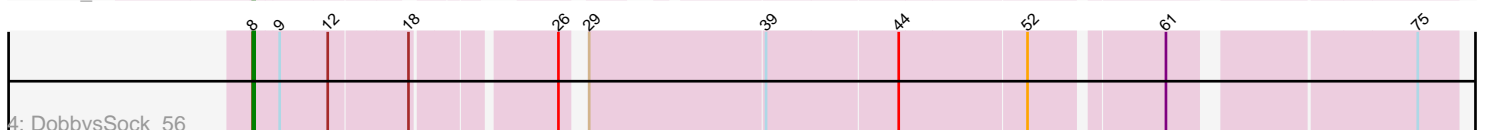
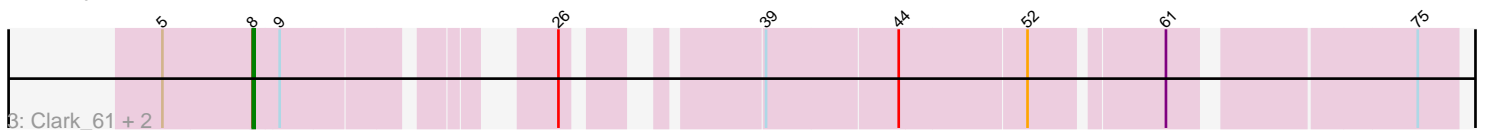
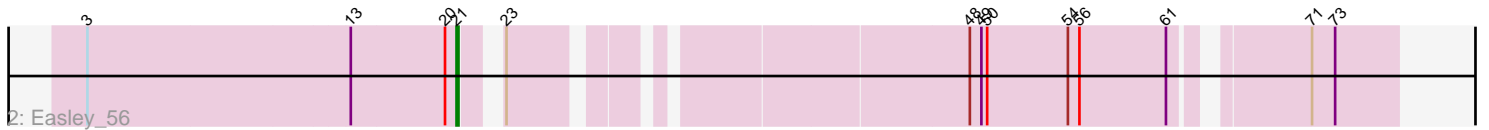
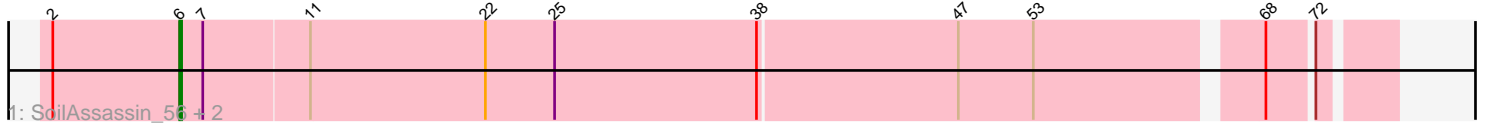


Pham 203362



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 203362 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203362 has 18 members, 3 are drafts.

Phages represented in each track:

- Track 1 : SoilAssassin_56, Attis_56, LordFarquaad_58
- Track 2 : Easley_56
- Track 3 : Clark_61, Invecetra_63, Samman98_62
- Track 4 : DobbysSock_56
- Track 5 : Thimann_62
- Track 6 : PhriskyACE_59
- Track 7 : Beenie_56
- Track 8 : Malisha_82
- Track 9 : Spooky_82
- Track 10 : ParvusTarda_94
- Track 11 : Nebkiss_50, Gaia_47
- Track 12 : Gudmit_53
- Track 13 : GAL1_62

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

The start number called the most often in the published annotations is 8, it was called in 4 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beenie_56, Clark_61, DobbysSock_56, Invecetra_63, Samman98_62,

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

-

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

- Attis_56, Easley_56, GAL1_62, Gaia_47, Gudmit_53, LordFarquaad_58, Malisha_82, Nebkiss_50, ParvusTarda_94, PhriskyACE_59, SoilAssassin_56, Spooky_82, Thimann_62,

Summary by start number:

Start 6:

- Found in 3 of 18 (16.7%) of genes in pham

- Manual Annotations of this start: 3 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Attis_56 (CZ2), LordFarquaad_58 (CZ2), SoilAssassin_56 (CZ2),

Start 8:

- Found in 5 of 18 (27.8%) of genes in pham
- Manual Annotations of this start: 4 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beenie_56 (CZ4), Clark_61 (CZ4), DobbysSock_56 (CZ4), Invectra_63 (CZ4), Samman98_62 (CZ4),

Start 16:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ParvusTarda_94 (DV),

Start 17:

- Found in 4 of 18 (22.2%) of genes in pham
- Manual Annotations of this start: 3 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GAL1_62 (singleton), Gudmit_53 (singleton), Malisha_82 (DN), Spooky_82 (DN2),

Start 21:

- Found in 3 of 18 (16.7%) of genes in pham
- Manual Annotations of this start: 2 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Easley_56 (CZ4), PhriskyACE_59 (CZ4), Thimann_62 (CZ4),

Start 33:

- Found in 2 of 18 (11.1%) of genes in pham
- Manual Annotations of this start: 2 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_47 (X), Nebkiss_50 (X),

Summary by clusters:

There are 7 clusters represented in this pham: DN, singleton, CZ2, CZ4, DN2, DV, X,

Info for manual annotations of cluster CZ2:

- Start number 6 was manually annotated 3 times for cluster CZ2.

Info for manual annotations of cluster CZ4:

- Start number 8 was manually annotated 4 times for cluster CZ4.
- Start number 21 was manually annotated 2 times for cluster CZ4.

Info for manual annotations of cluster DN:

- Start number 17 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN2:

- Start number 17 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster DV:

- Start number 16 was manually annotated 1 time for cluster DV.

Info for manual annotations of cluster X:

- Start number 33 was manually annotated 2 times for cluster X.

Gene Information:

Gene: Attis_56 Start: 39408, Stop: 40010, Start Num: 6

Candidate Starts for Attis_56:

(2, 39342), (Start: 6 @39408 has 3 MA's), (7, 39420), (11, 39474), (22, 39564), (25, 39600), (38, 39705), (47, 39807), (53, 39846), (68, 39954), (72, 39975),

Gene: Beenie_56 Start: 40503, Stop: 41057, Start Num: 8

Candidate Starts for Beenie_56:

(Start: 8 @40503 has 4 MA's), (9, 40515), (12, 40539), (24, 40614), (39, 40731), (44, 40797), (52, 40860), (61, 40923), (75, 41037),

Gene: Clark_61 Start: 40299, Stop: 40820, Start Num: 8

Candidate Starts for Clark_61:

(5, 40254), (Start: 8 @40299 has 4 MA's), (9, 40311), (26, 40419), (39, 40494), (44, 40560), (52, 40623), (61, 40686), (75, 40800),

Gene: DobbysSock_56 Start: 39905, Stop: 40468, Start Num: 8

Candidate Starts for DobbysSock_56:

(Start: 8 @39905 has 4 MA's), (9, 39917), (12, 39941), (18, 39980), (26, 40046), (29, 40052), (39, 40142), (44, 40208), (52, 40271), (61, 40334), (75, 40448),

Gene: Easley_56 Start: 39021, Stop: 39443, Start Num: 21

Candidate Starts for Easley_56:

(3, 38835), (13, 38967), (20, 39015), (Start: 21 @39021 has 2 MA's), (23, 39033), (48, 39240), (49, 39246), (50, 39249), (54, 39291), (56, 39297), (61, 39342), (71, 39399), (73, 39411),

Gene: GAL1_62 Start: 40466, Stop: 40969, Start Num: 17

Candidate Starts for GAL1_62:

(10, 40409), (Start: 17 @40466 has 3 MA's), (19, 40478), (46, 40727), (61, 40850),

Gene: Gaia_47 Start: 36098, Stop: 35730, Start Num: 33

Candidate Starts for Gaia_47:

(Start: 33 @36098 has 2 MA's), (41, 36005), (69, 35789), (72, 35771), (74, 35753),

Gene: Gudmit_53 Start: 33127, Stop: 33576, Start Num: 17

Candidate Starts for Gudmit_53:

(1, 32938), (4, 33001), (Start: 17 @33127 has 3 MA's), (19, 33139), (28, 33190), (39, 33280), (51, 33388), (57, 33433), (61, 33469), (62, 33478), (64, 33490), (65, 33493), (66, 33496), (67, 33508),

Gene: Invectra_63 Start: 41872, Stop: 42393, Start Num: 8

Candidate Starts for Invectra_63:

(5, 41827), (Start: 8 @41872 has 4 MA's), (9, 41884), (26, 41992), (39, 42067), (44, 42133), (52, 42196), (61, 42259), (75, 42373),

Gene: LordFarquaad_58 Start: 39389, Stop: 39991, Start Num: 6

Candidate Starts for LordFarquaad_58:

(2, 39323), (Start: 6 @39389 has 3 MA's), (7, 39401), (11, 39455), (22, 39545), (25, 39581), (38, 39686), (47, 39788), (53, 39827), (68, 39935), (72, 39956),

Gene: Malisha_82 Start: 49477, Stop: 49902, Start Num: 17

Candidate Starts for Malisha_82:

(14, 49453), (15, 49474), (Start: 17 @49477 has 3 MA's), (19, 49489), (34, 49585), (42, 49669), (43, 49672), (61, 49807), (62, 49816),

Gene: Nebkiss_50 Start: 35799, Stop: 35431, Start Num: 33

Candidate Starts for Nebkiss_50:

(Start: 33 @35799 has 2 MA's), (41, 35706), (69, 35490), (72, 35472), (74, 35454),

Gene: ParvusTarda_94 Start: 64352, Stop: 64807, Start Num: 16

Candidate Starts for ParvusTarda_94:

(Start: 16 @64352 has 1 MA's), (19, 64364), (27, 64415), (39, 64505), (45, 64568), (61, 64661), (75, 64775),

Gene: PhriskyACE_59 Start: 40589, Stop: 40981, Start Num: 21

Candidate Starts for PhriskyACE_59:

(3, 40403), (13, 40535), (Start: 21 @40589 has 2 MA's), (23, 40601), (35, 40703), (40, 40745), (55, 40862), (58, 40874), (59, 40883), (63, 40901), (70, 40925),

Gene: Samman98_62 Start: 40402, Stop: 40923, Start Num: 8

Candidate Starts for Samman98_62:

(5, 40357), (Start: 8 @40402 has 4 MA's), (9, 40414), (26, 40522), (39, 40597), (44, 40663), (52, 40726), (61, 40789), (75, 40903),

Gene: SoilAssassin_56 Start: 39407, Stop: 40009, Start Num: 6

Candidate Starts for SoilAssassin_56:

(2, 39341), (Start: 6 @39407 has 3 MA's), (7, 39419), (11, 39473), (22, 39563), (25, 39599), (38, 39704), (47, 39806), (53, 39845), (68, 39953), (72, 39974),

Gene: Spooky_82 Start: 46716, Stop: 47147, Start Num: 17

Candidate Starts for Spooky_82:

(11, 46671), (Start: 17 @46716 has 3 MA's), (19, 46728), (31, 46800), (36, 46857), (37, 46860), (46, 46929), (61, 47052),

Gene: Thimann_62 Start: 40740, Stop: 41195, Start Num: 21

Candidate Starts for Thimann_62:

(3, 40554), (13, 40686), (20, 40734), (Start: 21 @40740 has 2 MA's), (23, 40752), (30, 40806), (32, 40815), (51, 40983), (60, 41061), (75, 41175),