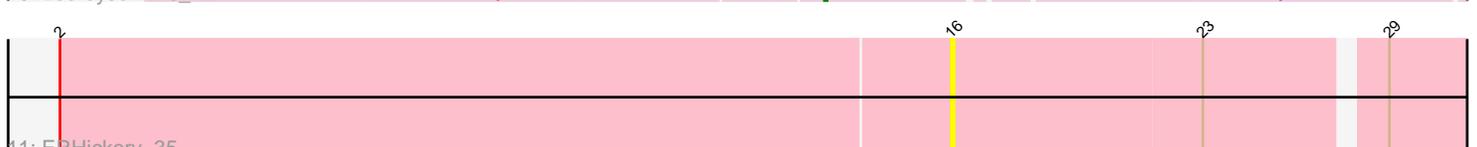
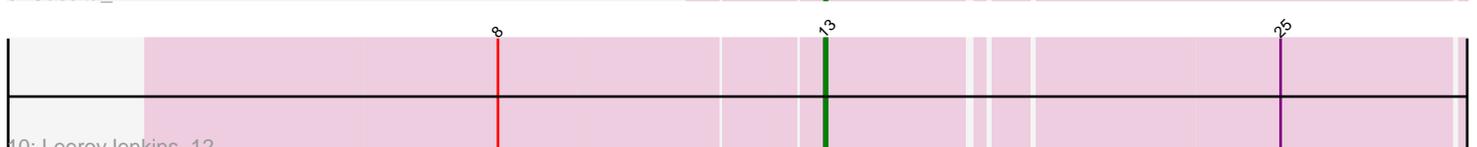
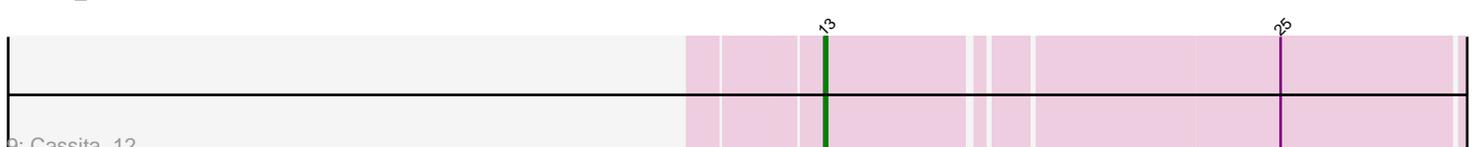
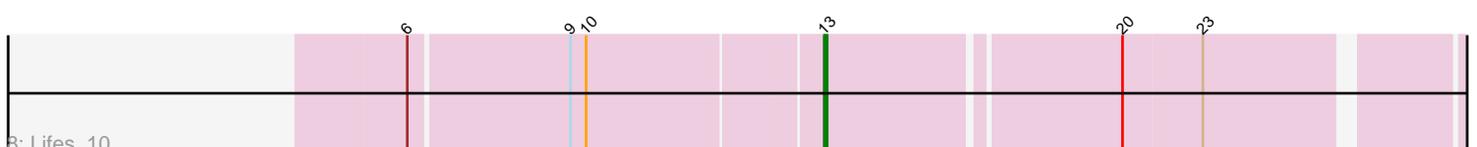
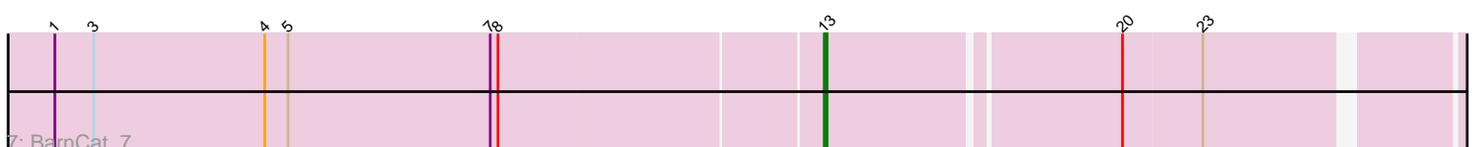
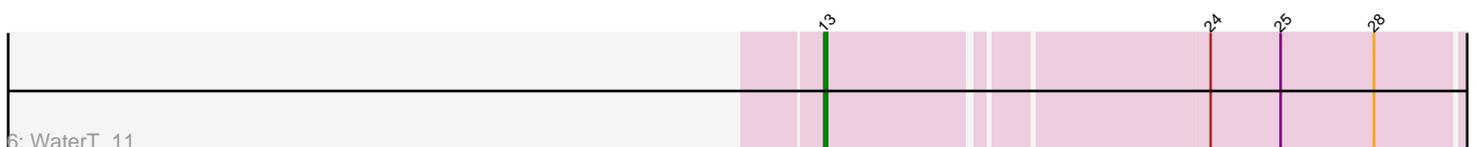
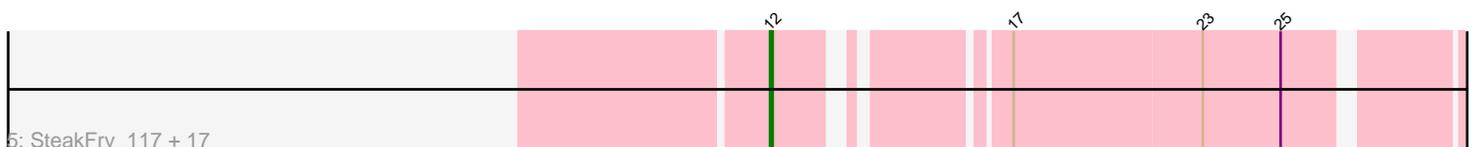
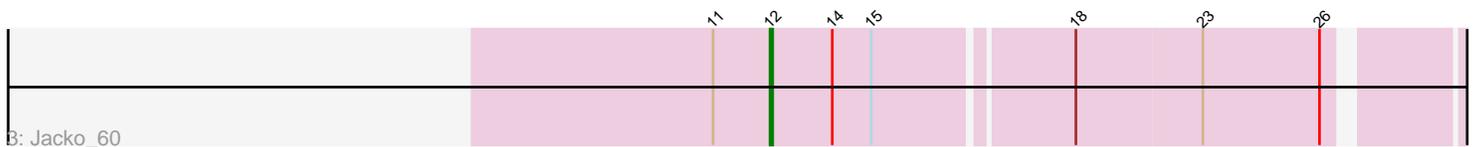
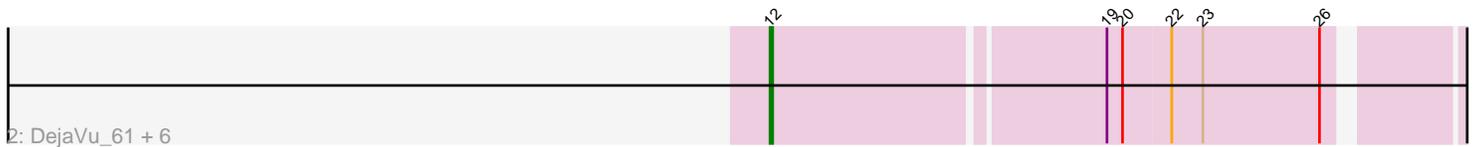


Pham 289586



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 289586 Report

This analysis was run 03/28/26 on database version 641.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 289586 has 35 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Wolfstar_61
- Track 2 : DejaVu_61, Lupine_58, Pavlo_59, Solimine_60, Uterion_62, Saradis_60, PhillyPhilly_59
- Track 3 : Jacko_60
- Track 4 : Roman_60, Hubbs_60
- Track 5 : SteakFry_117, SteakFry_63, Casablanacas_65, Necrophoxinus_66, RunningBrook_65, Welcome_65, DustyDino_67, HollowPurple_65, Issa7_63, Deschain_65, Musetta_64, Lyell_64, ASegato_63, Yuma_63, Erenyeager_64, StevieWelch_64, Shroomer_67, Fork_60
- Track 6 : WaterT_11
- Track 7 : BarnCat_7
- Track 8 : Lifes_10
- Track 9 : Cassita_12
- Track 10 : LeeroyJenkins_12
- Track 11 : ERHickory_35

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

The start number called the most often in the published annotations is 12, it was called in 20 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ASegato_63, Casablanacas_65, DejaVu_61, Deschain_65, DustyDino_67, Erenyeager_64, Fork_60, HollowPurple_65, Hubbs_60, Issa7_63, Jacko_60, Lupine_58, Lyell_64, Musetta_64, Necrophoxinus_66, Pavlo_59, PhillyPhilly_59, Roman_60, RunningBrook_65, Saradis_60, Shroomer_67, Solimine_60, SteakFry_117, SteakFry_63, StevieWelch_64, Uterion_62, Welcome_65, Wolfstar_61, Yuma_63,

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

-

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

- BarnCat_7, Cassita_12, ERHickory_35, LeeroyJenkins_12, Lifes_10, WaterT_11,

Summary by start number:

Start 12:

- Found in 29 of 35 (82.9%) of genes in pham
- Manual Annotations of this start: 20 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ASegato_63 (ED2), Casablanacas_65 (ED2), DejaVu_61 (ED1), Deschain_65 (ED2), DustyDino_67 (ED2), Erenyeager_64 (ED2), Fork_60 (ED2), HollowPurple_65 (ED2), Hubbs_60 (ED1), Issa7_63 (ED2), Jacko_60 (ED1), Lupine_58 (ED1), Lyell_64 (ED2), Musetta_64 (ED2), Necrophoxinus_66 (ED2), Pavlo_59 (ED1), PhillyPhilly_59 (ED1), Roman_60 (ED1), RunningBrook_65 (ED2), Saradis_60 (ED1), Shroomer_67 (ED2), Solimine_60 (ED1), SteakFry_117 (ED2), SteakFry_63 (ED2), StevieWelch_64 (ED2), Uterion_62 (ED1), Welcome_65 (ED2), Wolfstar_61 (ED), Yuma_63 (ED2),

Start 13:

- Found in 5 of 35 (14.3%) of genes in pham
- Manual Annotations of this start: 5 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BarnCat_7 (GB), Cassita_12 (GB), LeeroyJenkins_12 (GB), Lifes_10 (GB), WaterT_11 (GB),

Start 16:

- Found in 1 of 35 (2.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ERHickory_35 (singleton),

Summary by clusters:

There are 5 clusters represented in this pham: ED2, ED, singleton, ED1, GB,

Info for manual annotations of cluster ED:

- Start number 12 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:

- Start number 12 was manually annotated 7 times for cluster ED1.

Info for manual annotations of cluster ED2:

- Start number 12 was manually annotated 12 times for cluster ED2.

Info for manual annotations of cluster GB:

- Start number 13 was manually annotated 5 times for cluster GB.

Gene Information:

Gene: ASegato_63 Start: 35933, Stop: 36172, Start Num: 12
Candidate Starts for ASegato_63:
(Start: 12 @35933 has 20 MA's), (17, 36005), (23, 36077), (25, 36107),

Gene: BarnCat_7 Start: 2513, Stop: 2755, Start Num: 13
Candidate Starts for BarnCat_7:
(1, 2222), (3, 2237), (4, 2303), (5, 2312), (7, 2390), (8, 2393), (Start: 13 @2513 has 5 MA's), (20, 2621), (23, 2651),

Gene: Casablancas_65 Start: 35673, Stop: 35912, Start Num: 12
Candidate Starts for Casablancas_65:
(Start: 12 @35673 has 20 MA's), (17, 35745), (23, 35817), (25, 35847),

Gene: Cassita_12 Start: 3271, Stop: 3519, Start Num: 13
Candidate Starts for Cassita_12:
(Start: 13 @3271 has 5 MA's), (25, 3436),

Gene: DejaVu_61 Start: 35839, Stop: 36096, Start Num: 12
Candidate Starts for DejaVu_61:
(Start: 12 @35839 has 20 MA's), (19, 35962), (20, 35968), (22, 35986), (23, 35998), (26, 36043),

Gene: Deschain_65 Start: 36337, Stop: 36576, Start Num: 12
Candidate Starts for Deschain_65:
(Start: 12 @36337 has 20 MA's), (17, 36409), (23, 36481), (25, 36511),

Gene: DustyDino_67 Start: 36531, Stop: 36770, Start Num: 12
Candidate Starts for DustyDino_67:
(Start: 12 @36531 has 20 MA's), (17, 36603), (23, 36675), (25, 36705),

Gene: ERHickory_35 Start: 16381, Stop: 16605, Start Num: 16
Candidate Starts for ERHickory_35:
(2, 16039), (16, 16381), (23, 16477), (29, 16540),

Gene: Erenyeager_64 Start: 35923, Stop: 36162, Start Num: 12
Candidate Starts for Erenyeager_64:
(Start: 12 @35923 has 20 MA's), (17, 35995), (23, 36067), (25, 36097),

Gene: Fork_60 Start: 35583, Stop: 35822, Start Num: 12
Candidate Starts for Fork_60:
(Start: 12 @35583 has 20 MA's), (17, 35655), (23, 35727), (25, 35757),

Gene: HollowPurple_65 Start: 36139, Stop: 36378, Start Num: 12
Candidate Starts for HollowPurple_65:
(Start: 12 @36139 has 20 MA's), (17, 36211), (23, 36283), (25, 36313),

Gene: Hubbs_60 Start: 36051, Stop: 36308, Start Num: 12
Candidate Starts for Hubbs_60:
(Start: 12 @36051 has 20 MA's), (17, 36138), (21, 36189), (27, 36264),

Gene: Issa7_63 Start: 35587, Stop: 35826, Start Num: 12
Candidate Starts for Issa7_63:
(Start: 12 @35587 has 20 MA's), (17, 35659), (23, 35731), (25, 35761),

Gene: Jacko_60 Start: 34827, Stop: 35084, Start Num: 12
Candidate Starts for Jacko_60:
(11, 34806), (Start: 12 @34827 has 20 MA's), (14, 34851), (15, 34866), (18, 34938), (23, 34986), (26, 35031),

Gene: LeeroyJenkins_12 Start: 3061, Stop: 3309, Start Num: 13
Candidate Starts for LeeroyJenkins_12:
(8, 2941), (Start: 13 @3061 has 5 MA's), (25, 3226),

Gene: Lifes_10 Start: 2650, Stop: 2892, Start Num: 13
Candidate Starts for Lifes_10:
(6, 2497), (9, 2557), (10, 2563), (Start: 13 @2650 has 5 MA's), (20, 2758), (23, 2788),

Gene: Lupine_58 Start: 35253, Stop: 35510, Start Num: 12
Candidate Starts for Lupine_58:
(Start: 12 @35253 has 20 MA's), (19, 35376), (20, 35382), (22, 35400), (23, 35412), (26, 35457),

Gene: Lyell_64 Start: 35842, Stop: 36081, Start Num: 12
Candidate Starts for Lyell_64:
(Start: 12 @35842 has 20 MA's), (17, 35914), (23, 35986), (25, 36016),

Gene: Musetta_64 Start: 36303, Stop: 36542, Start Num: 12
Candidate Starts for Musetta_64:
(Start: 12 @36303 has 20 MA's), (17, 36375), (23, 36447), (25, 36477),

Gene: Necrophoxinus_66 Start: 36537, Stop: 36776, Start Num: 12
Candidate Starts for Necrophoxinus_66:
(Start: 12 @36537 has 20 MA's), (17, 36609), (23, 36681), (25, 36711),

Gene: Pavlo_59 Start: 35898, Stop: 36155, Start Num: 12
Candidate Starts for Pavlo_59:
(Start: 12 @35898 has 20 MA's), (19, 36021), (20, 36027), (22, 36045), (23, 36057), (26, 36102),

Gene: PhillyPhilly_59 Start: 35432, Stop: 35689, Start Num: 12
Candidate Starts for PhillyPhilly_59:
(Start: 12 @35432 has 20 MA's), (19, 35555), (20, 35561), (22, 35579), (23, 35591), (26, 35636),

Gene: Roman_60 Start: 35899, Stop: 36156, Start Num: 12
Candidate Starts for Roman_60:
(Start: 12 @35899 has 20 MA's), (17, 35986), (21, 36037), (27, 36112),

Gene: RunningBrook_65 Start: 36531, Stop: 36770, Start Num: 12
Candidate Starts for RunningBrook_65:
(Start: 12 @36531 has 20 MA's), (17, 36603), (23, 36675), (25, 36705),

Gene: Saradis_60 Start: 35491, Stop: 35748, Start Num: 12
Candidate Starts for Saradis_60:
(Start: 12 @35491 has 20 MA's), (19, 35614), (20, 35620), (22, 35638), (23, 35650), (26, 35695),

Gene: Shroomer_67 Start: 36073, Stop: 36312, Start Num: 12
Candidate Starts for Shroomer_67:
(Start: 12 @36073 has 20 MA's), (17, 36145), (23, 36217), (25, 36247),

Gene: Solimine_60 Start: 35905, Stop: 36162, Start Num: 12
Candidate Starts for Solimine_60:
(Start: 12 @35905 has 20 MA's), (19, 36028), (20, 36034), (22, 36052), (23, 36064), (26, 36109),

Gene: SteakFry_117 Start: 61335, Stop: 61574, Start Num: 12
Candidate Starts for SteakFry_117:
(Start: 12 @61335 has 20 MA's), (17, 61407), (23, 61479), (25, 61509),

Gene: SteakFry_63 Start: 36139, Stop: 36378, Start Num: 12
Candidate Starts for SteakFry_63:
(Start: 12 @36139 has 20 MA's), (17, 36211), (23, 36283), (25, 36313),

Gene: StevieWelch_64 Start: 35923, Stop: 36162, Start Num: 12
Candidate Starts for StevieWelch_64:
(Start: 12 @35923 has 20 MA's), (17, 35995), (23, 36067), (25, 36097),

Gene: Uterion_62 Start: 36000, Stop: 36257, Start Num: 12
Candidate Starts for Uterion_62:
(Start: 12 @36000 has 20 MA's), (19, 36123), (20, 36129), (22, 36147), (23, 36159), (26, 36204),

Gene: WaterT_11 Start: 2884, Stop: 3132, Start Num: 13
Candidate Starts for WaterT_11:
(Start: 13 @2884 has 5 MA's), (24, 3022), (25, 3049), (28, 3085),

Gene: Welcome_65 Start: 36288, Stop: 36527, Start Num: 12
Candidate Starts for Welcome_65:
(Start: 12 @36288 has 20 MA's), (17, 36360), (23, 36432), (25, 36462),

Gene: Wolfstar_61 Start: 36943, Stop: 37197, Start Num: 12
Candidate Starts for Wolfstar_61:
(Start: 12 @36943 has 20 MA's), (17, 37027), (18, 37051), (23, 37099),

Gene: Yuma_63 Start: 35857, Stop: 36096, Start Num: 12
Candidate Starts for Yuma_63:
(Start: 12 @35857 has 20 MA's), (17, 35929), (23, 36001), (25, 36031),