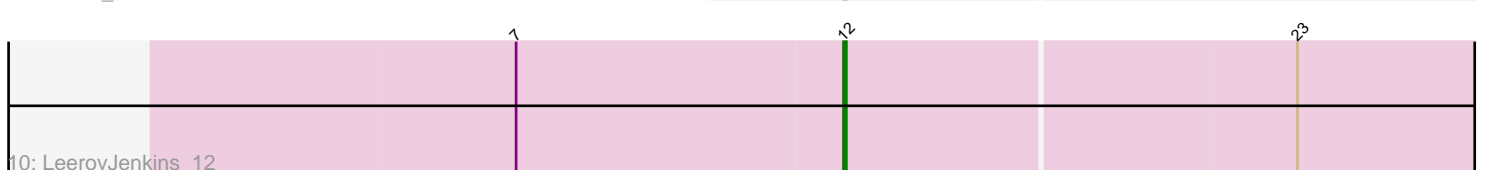
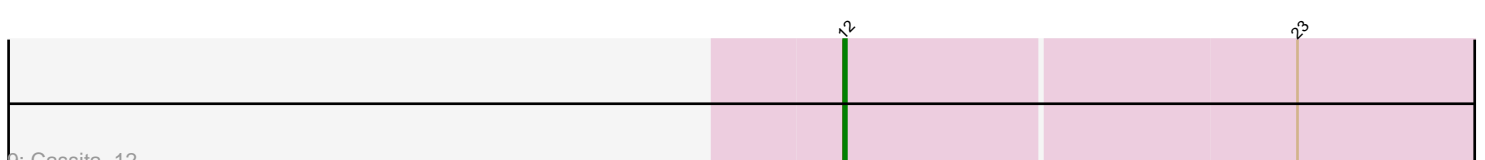
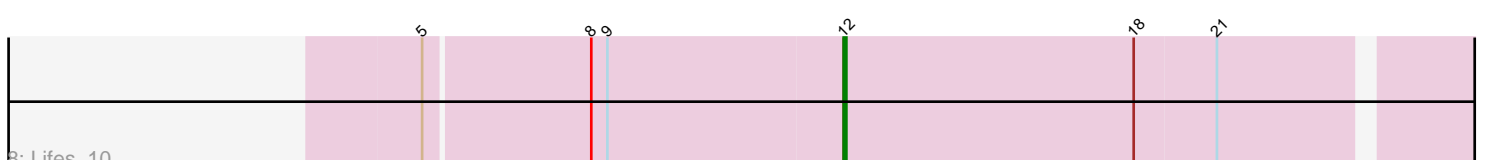
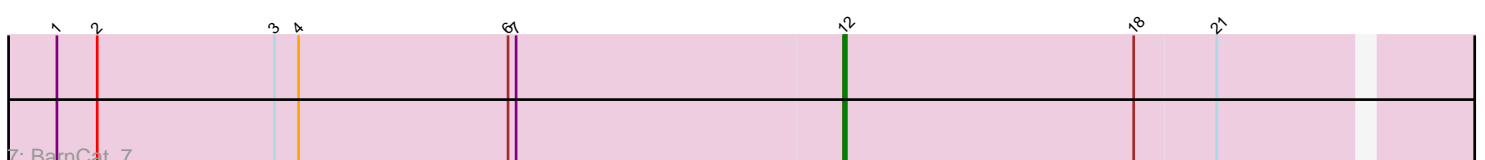
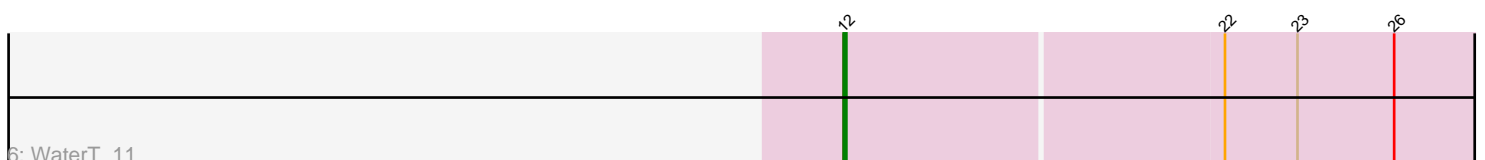
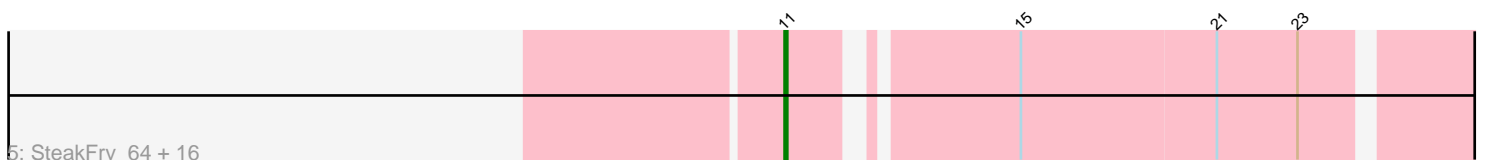
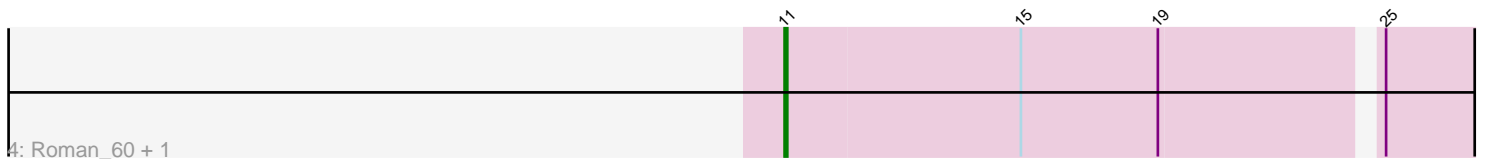
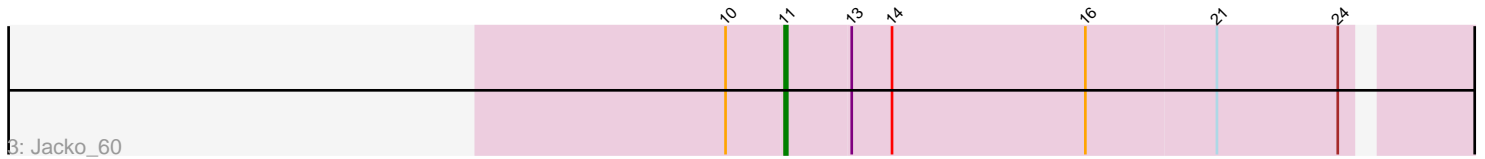
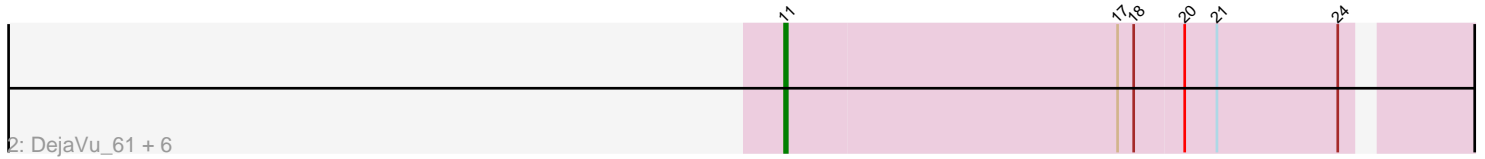
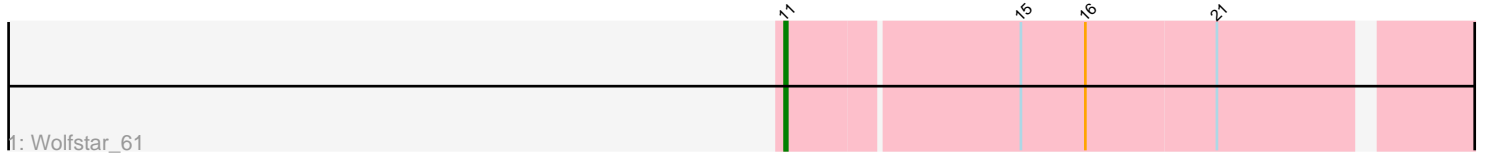


Pham 301580



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 301580 Report

This analysis was run 06/12/26 on database version 650.

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 301580 has 33 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Wolfstar_61
- Track 2 : DejaVu_61, Lupine_58, Pavlo_59, Solimine_60, PhillyPhilly_59, Uterion_62, Saradis_60
- Track 3 : Jacko_60
- Track 4 : Roman_60, Hubbs_60
- Track 5 : SteakFry_64, Casablanacas_65, Necrophoxinus_66, RunningBrook_65, Erenyeager_64, Welcome_65, DustyDino_67, HollowPurple_65, Issa7_63, Deschain_65, Musetta_64, Lyell_64, ASegato_63, Yuma_63, StevieWelch_64, Shroomer_68, Fork_60
- Track 6 : WaterT_11
- Track 7 : BarnCat_7
- Track 8 : Lifes_10
- Track 9 : Cassita_12
- Track 10 : LeeroyJenkins_12

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

The start number called the most often in the published annotations is 11, it was called in 22 of the 27 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_68, Solimine_60, SteakFry_64, 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, LeeroyJenkins_12, Lifes_10, WaterT_11,

Summary by start number:

Start 11:

- Found in 28 of 33 (84.8%) of genes in pham
- Manual Annotations of this start: 22 of 27
- 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_68 (ED2), Solimine_60 (ED1), SteakFry_64 (ED2), StevieWelch_64 (ED2), Uterion_62 (ED1), Welcome_65 (ED2), Wolfstar_61 (ED), Yuma_63 (ED2),

Start 12:

- Found in 5 of 33 (15.2%) of genes in pham
- Manual Annotations of this start: 5 of 27
- 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),

Summary by clusters:

There are 4 clusters represented in this pham: ED2, ED, ED1, GB,

Info for manual annotations of cluster ED:

- Start number 11 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:

- Start number 11 was manually annotated 7 times for cluster ED1.

Info for manual annotations of cluster ED2:

- Start number 11 was manually annotated 14 times for cluster ED2.

Info for manual annotations of cluster GB:

- Start number 12 was manually annotated 5 times for cluster GB.

Gene Information:

Gene: ASegato_63 Start: 35933, Stop: 36172, Start Num: 11

Candidate Starts for ASegato_63:

(Start: 11 @35933 has 22 MA's), (15, 36005), (21, 36077), (23, 36107),

Gene: BarnCat_7 Start: 2513, Stop: 2755, Start Num: 12

Candidate Starts for BarnCat_7:

(1, 2222), (2, 2237), (3, 2303), (4, 2312), (6, 2390), (7, 2393), (Start: 12 @2513 has 5 MA's), (18, 2621), (21, 2651),

Gene: Casablanacas_65 Start: 35673, Stop: 35912, Start Num: 11
Candidate Starts for Casablanacas_65:
(Start: 11 @35673 has 22 MA's), (15, 35745), (21, 35817), (23, 35847),

Gene: Cassita_12 Start: 3271, Stop: 3519, Start Num: 12
Candidate Starts for Cassita_12:
(Start: 12 @3271 has 5 MA's), (23, 3436),

Gene: DejaVu_61 Start: 35839, Stop: 36096, Start Num: 11
Candidate Starts for DejaVu_61:
(Start: 11 @35839 has 22 MA's), (17, 35962), (18, 35968), (20, 35986), (21, 35998), (24, 36043),

Gene: Deschain_65 Start: 36337, Stop: 36576, Start Num: 11
Candidate Starts for Deschain_65:
(Start: 11 @36337 has 22 MA's), (15, 36409), (21, 36481), (23, 36511),

Gene: DustyDino_67 Start: 36531, Stop: 36770, Start Num: 11
Candidate Starts for DustyDino_67:
(Start: 11 @36531 has 22 MA's), (15, 36603), (21, 36675), (23, 36705),

Gene: Erenyeager_64 Start: 35923, Stop: 36162, Start Num: 11
Candidate Starts for Erenyeager_64:
(Start: 11 @35923 has 22 MA's), (15, 35995), (21, 36067), (23, 36097),

Gene: Fork_60 Start: 35583, Stop: 35822, Start Num: 11
Candidate Starts for Fork_60:
(Start: 11 @35583 has 22 MA's), (15, 35655), (21, 35727), (23, 35757),

Gene: HollowPurple_65 Start: 36139, Stop: 36378, Start Num: 11
Candidate Starts for HollowPurple_65:
(Start: 11 @36139 has 22 MA's), (15, 36211), (21, 36283), (23, 36313),

Gene: Hubbs_60 Start: 36051, Stop: 36308, Start Num: 11
Candidate Starts for Hubbs_60:
(Start: 11 @36051 has 22 MA's), (15, 36138), (19, 36189), (25, 36264),

Gene: Issa7_63 Start: 35587, Stop: 35826, Start Num: 11
Candidate Starts for Issa7_63:
(Start: 11 @35587 has 22 MA's), (15, 35659), (21, 35731), (23, 35761),

Gene: Jacko_60 Start: 34827, Stop: 35084, Start Num: 11
Candidate Starts for Jacko_60:
(10, 34806), (Start: 11 @34827 has 22 MA's), (13, 34851), (14, 34866), (16, 34938), (21, 34986), (24, 35031),

Gene: LeeroyJenkins_12 Start: 3061, Stop: 3309, Start Num: 12
Candidate Starts for LeeroyJenkins_12:
(7, 2941), (Start: 12 @3061 has 5 MA's), (23, 3226),

Gene: Lifes_10 Start: 2650, Stop: 2892, Start Num: 12
Candidate Starts for Lifes_10:
(5, 2497), (8, 2557), (9, 2563), (Start: 12 @2650 has 5 MA's), (18, 2758), (21, 2788),

Gene: Lupine_58 Start: 35253, Stop: 35510, Start Num: 11
Candidate Starts for Lupine_58:
(Start: 11 @35253 has 22 MA's), (17, 35376), (18, 35382), (20, 35400), (21, 35412), (24, 35457),

Gene: Lyell_64 Start: 35842, Stop: 36081, Start Num: 11
Candidate Starts for Lyell_64:
(Start: 11 @35842 has 22 MA's), (15, 35914), (21, 35986), (23, 36016),

Gene: Musetta_64 Start: 36303, Stop: 36542, Start Num: 11
Candidate Starts for Musetta_64:
(Start: 11 @36303 has 22 MA's), (15, 36375), (21, 36447), (23, 36477),

Gene: Necrophoxinus_66 Start: 36537, Stop: 36776, Start Num: 11
Candidate Starts for Necrophoxinus_66:
(Start: 11 @36537 has 22 MA's), (15, 36609), (21, 36681), (23, 36711),

Gene: Pavlo_59 Start: 35898, Stop: 36155, Start Num: 11
Candidate Starts for Pavlo_59:
(Start: 11 @35898 has 22 MA's), (17, 36021), (18, 36027), (20, 36045), (21, 36057), (24, 36102),

Gene: PhillyPhilly_59 Start: 35432, Stop: 35689, Start Num: 11
Candidate Starts for PhillyPhilly_59:
(Start: 11 @35432 has 22 MA's), (17, 35555), (18, 35561), (20, 35579), (21, 35591), (24, 35636),

Gene: Roman_60 Start: 35899, Stop: 36156, Start Num: 11
Candidate Starts for Roman_60:
(Start: 11 @35899 has 22 MA's), (15, 35986), (19, 36037), (25, 36112),

Gene: RunningBrook_65 Start: 36531, Stop: 36770, Start Num: 11
Candidate Starts for RunningBrook_65:
(Start: 11 @36531 has 22 MA's), (15, 36603), (21, 36675), (23, 36705),

Gene: Saradis_60 Start: 35491, Stop: 35748, Start Num: 11
Candidate Starts for Saradis_60:
(Start: 11 @35491 has 22 MA's), (17, 35614), (18, 35620), (20, 35638), (21, 35650), (24, 35695),

Gene: Shroomer_68 Start: 36073, Stop: 36312, Start Num: 11
Candidate Starts for Shroomer_68:
(Start: 11 @36073 has 22 MA's), (15, 36145), (21, 36217), (23, 36247),

Gene: Solimine_60 Start: 35905, Stop: 36162, Start Num: 11
Candidate Starts for Solimine_60:
(Start: 11 @35905 has 22 MA's), (17, 36028), (18, 36034), (20, 36052), (21, 36064), (24, 36109),

Gene: SteakFry_64 Start: 36139, Stop: 36378, Start Num: 11
Candidate Starts for SteakFry_64:
(Start: 11 @36139 has 22 MA's), (15, 36211), (21, 36283), (23, 36313),

Gene: StevieWelch_64 Start: 35923, Stop: 36162, Start Num: 11
Candidate Starts for StevieWelch_64:
(Start: 11 @35923 has 22 MA's), (15, 35995), (21, 36067), (23, 36097),

Gene: Uterion_62 Start: 36000, Stop: 36257, Start Num: 11

Candidate Starts for Uterion_62:

(Start: 11 @36000 has 22 MA's), (17, 36123), (18, 36129), (20, 36147), (21, 36159), (24, 36204),

Gene: WaterT_11 Start: 2884, Stop: 3132, Start Num: 12

Candidate Starts for WaterT_11:

(Start: 12 @2884 has 5 MA's), (22, 3022), (23, 3049), (26, 3085),

Gene: Welcome_65 Start: 36288, Stop: 36527, Start Num: 11

Candidate Starts for Welcome_65:

(Start: 11 @36288 has 22 MA's), (15, 36360), (21, 36432), (23, 36462),

Gene: Wolfstar_61 Start: 36943, Stop: 37197, Start Num: 11

Candidate Starts for Wolfstar_61:

(Start: 11 @36943 has 22 MA's), (15, 37027), (16, 37051), (21, 37099),

Gene: Yuma_63 Start: 35857, Stop: 36096, Start Num: 11

Candidate Starts for Yuma_63:

(Start: 11 @35857 has 22 MA's), (15, 35929), (21, 36001), (23, 36031),