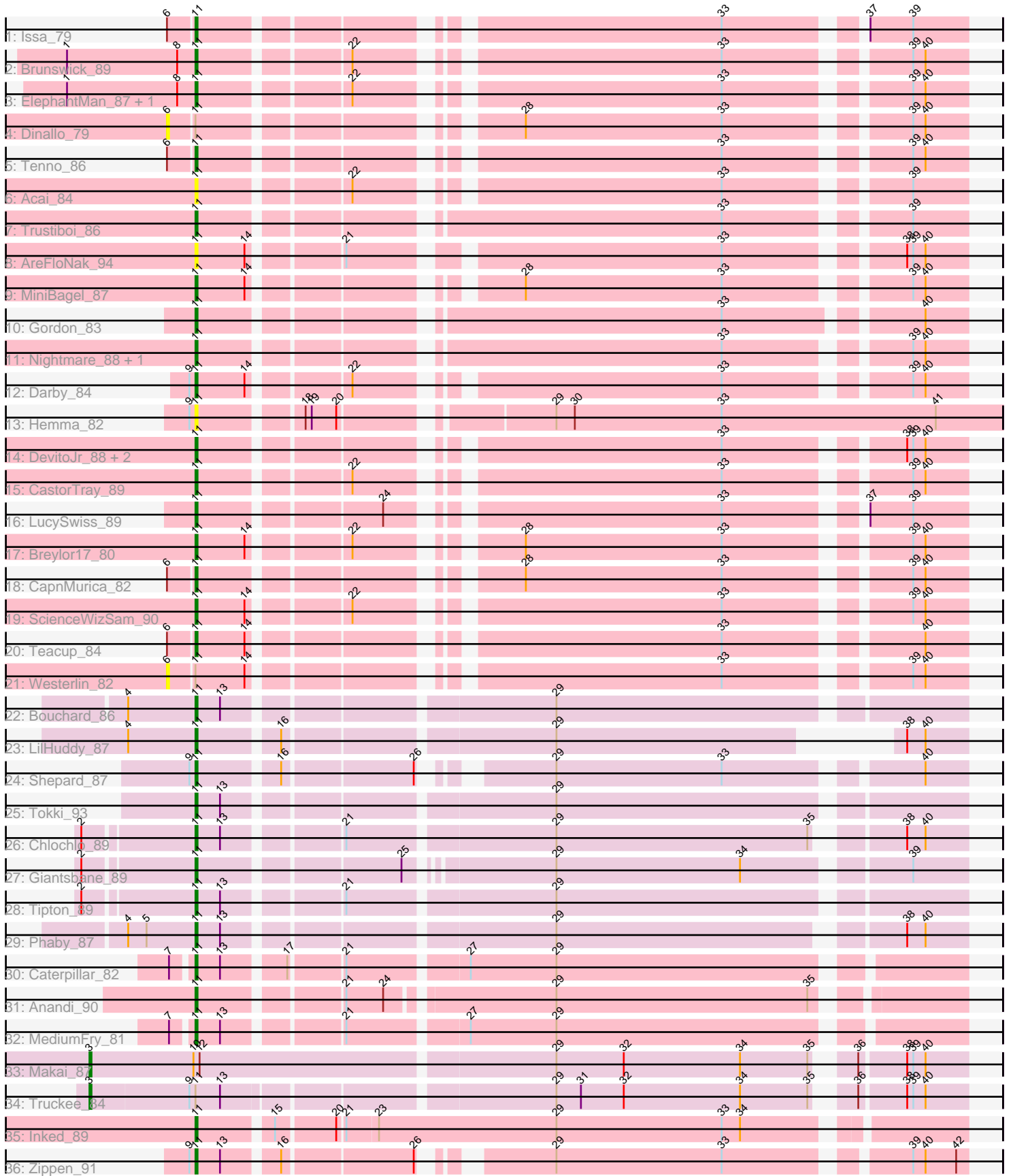


Pham 308871



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 308871 Report

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

Pham number 308871 has 40 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Issa_79
- Track 2 : Brunswick_89
- Track 3 : ElephantMan_87, Niktson_87
- Track 4 : Dinallo_79
- Track 5 : Tenno_86
- Track 6 : Acai_84
- Track 7 : Trustiboi_86
- Track 8 : AreFloNak_94
- Track 9 : MiniBagel_87
- Track 10 : Gordon_83
- Track 11 : Nightmare_88, Synepsis_80
- Track 12 : Darby_84
- Track 13 : Hemma_82
- Track 14 : DevitoJr_88, Nivinsha_89, Tatanka_82
- Track 15 : CastorTray_89
- Track 16 : LucySwiss_89
- Track 17 : Breylor17_80
- Track 18 : CapnMurica_82
- Track 19 : ScienceWizSam_90
- Track 20 : Teacup_84
- Track 21 : Westerlin_82
- Track 22 : Bouchard_86
- Track 23 : LilHuddy_87
- Track 24 : Shepard_87
- Track 25 : Tokki_93
- Track 26 : Chlochlo_89
- Track 27 : Giantsbane_89
- Track 28 : Tipton_89
- Track 29 : Phaby_87
- Track 30 : Caterpillar_82
- Track 31 : Anandi_90
- Track 32 : MediumFry_81
- Track 33 : Makai_87
- Track 34 : Truckee_84
- Track 35 : Inked_89
- Track 36 : Zippen_91

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 32 of the 34 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acai_84, Anandi_90, AreFloNak_94, Bouchard_86, Breylor17_80, Brunswick_89, CapnMurica_82, CastorTray_89, Caterpillar_82, Chlochlo_89, Darby_84, DevitoJr_88, ElephantMan_87, Giantsbane_89, Gordon_83, Hemma_82, Inked_89, Issa_79, LilHuddy_87, LucySwiss_89, MediumFry_81, MiniBagel_87, Nightmare_88, Niktson_87, Nivinsha_89, Phaby_87, ScienceWizSam_90, Shepard_87, Synopsis_80, Tatanka_82, Teacup_84, Tenno_86, Tipton_89, Tokki_93, Trustiboi_86, Zippen_91,

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

- Dinallo_79, Truckee_84, Westerlin_82,

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

- Makai_87,

Summary by start number:

Start 3:

- Found in 2 of 40 (5.0%) of genes in pham
- Manual Annotations of this start: 2 of 34
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Makai_87 (AU5), Truckee_84 (AU5),

Start 6:

- Found in 6 of 40 (15.0%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Dinallo_79 (AU1), Westerlin_82 (AU1),

Start 11:

- Found in 39 of 40 (97.5%) of genes in pham
- Manual Annotations of this start: 32 of 34
- Called 92.3% of time when present
- Phage (with cluster) where this start called: Acai_84 (AU1), Anandi_90 (AU4), AreFloNak_94 (AU1), Bouchard_86 (AU2), Breylor17_80 (AU1), Brunswick_89 (AU1), CapnMurica_82 (AU1), CastorTray_89 (AU1), Caterpillar_82 (AU4), Chlochlo_89 (AU2), Darby_84 (AU1), DevitoJr_88 (AU1), ElephantMan_87 (AU1), Giantsbane_89 (AU2), Gordon_83 (AU1), Hemma_82 (AU1), Inked_89 (AU7), Issa_79 (AU1), LilHuddy_87 (AU2), LucySwiss_89 (AU1), MediumFry_81 (AU4), MiniBagel_87 (AU1), Nightmare_88 (AU1), Niktson_87 (AU1), Nivinsha_89 (AU1), Phaby_87 (AU2), ScienceWizSam_90 (AU1), Shepard_87 (AU2), Synopsis_80 (AU1), Tatanka_82 (AU1), Teacup_84 (AU1), Tenno_86 (AU1), Tipton_89 (AU2), Tokki_93 (AU2), Trustiboi_86 (AU1), Zippen_91 (AU7),

Summary by clusters:

There are 5 clusters represented in this pham: AU1, AU2, AU5, AU4, AU7,

Info for manual annotations of cluster AU1:

- Start number 11 was manually annotated 19 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 11 was manually annotated 8 times for cluster AU2.

Info for manual annotations of cluster AU4:

- Start number 11 was manually annotated 3 times for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 3 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU7:

- Start number 11 was manually annotated 2 times for cluster AU7.

Gene Information:

Gene: Acai_84 Start: 52932, Stop: 53261, Start Num: 11

Candidate Starts for Acai_84:

(Start: 11 @52932 has 32 MA's), (22, 52998), (33, 53157), (39, 53235),

Gene: Anandi_90 Start: 52554, Stop: 52895, Start Num: 11

Candidate Starts for Anandi_90:

(Start: 11 @52554 has 32 MA's), (21, 52617), (24, 52635), (29, 52710), (35, 52833),

Gene: AreFloNak_94 Start: 53656, Stop: 53988, Start Num: 11

Candidate Starts for AreFloNak_94:

(Start: 11 @53656 has 32 MA's), (14, 53680), (21, 53719), (33, 53884), (38, 53959), (39, 53962), (40, 53968),

Gene: Bouchard_86 Start: 52589, Stop: 52936, Start Num: 11

Candidate Starts for Bouchard_86:

(4, 52556), (Start: 11 @52589 has 32 MA's), (13, 52601), (29, 52748),

Gene: Breylor17_80 Start: 53130, Stop: 53459, Start Num: 11

Candidate Starts for Breylor17_80:

(Start: 11 @53130 has 32 MA's), (14, 53154), (22, 53196), (28, 53259), (33, 53355), (39, 53433), (40, 53439),

Gene: Brunswick_89 Start: 53281, Stop: 53610, Start Num: 11

Candidate Starts for Brunswick_89:

(1, 53218), (8, 53272), (Start: 11 @53281 has 32 MA's), (22, 53347), (33, 53506), (39, 53584), (40, 53590),

Gene: CapnMurica_82 Start: 53466, Stop: 53795, Start Num: 11

Candidate Starts for CapnMurica_82:

(6, 53454), (Start: 11 @53466 has 32 MA's), (28, 53595), (33, 53691), (39, 53769), (40, 53775),

Gene: CastorTray_89 Start: 53682, Stop: 54011, Start Num: 11
Candidate Starts for CastorTray_89:
(Start: 11 @53682 has 32 MA's), (22, 53748), (33, 53907), (39, 53985), (40, 53991),

Gene: Caterpillar_82 Start: 51910, Stop: 52254, Start Num: 11
Candidate Starts for Caterpillar_82:
(7, 51901), (Start: 11 @51910 has 32 MA's), (13, 51922), (17, 51949), (21, 51973), (27, 52027), (29, 52069),

Gene: Chlochlo_89 Start: 52658, Stop: 53002, Start Num: 11
Candidate Starts for Chlochlo_89:
(2, 52607), (Start: 11 @52658 has 32 MA's), (13, 52670), (21, 52721), (29, 52817), (35, 52940), (38, 52973), (40, 52982),

Gene: Darby_84 Start: 53063, Stop: 53392, Start Num: 11
Candidate Starts for Darby_84:
(9, 53060), (Start: 11 @53063 has 32 MA's), (14, 53087), (22, 53129), (33, 53288), (39, 53366), (40, 53372),

Gene: DevitoJr_88 Start: 53352, Stop: 53681, Start Num: 11
Candidate Starts for DevitoJr_88:
(Start: 11 @53352 has 32 MA's), (33, 53577), (38, 53652), (39, 53655), (40, 53661),

Gene: Dinallo_79 Start: 53697, Stop: 54038, Start Num: 6
Candidate Starts for Dinallo_79:
(6, 53697), (Start: 11 @53709 has 32 MA's), (28, 53838), (33, 53934), (39, 54012), (40, 54018),

Gene: ElephantMan_87 Start: 53713, Stop: 54042, Start Num: 11
Candidate Starts for ElephantMan_87:
(1, 53650), (8, 53704), (Start: 11 @53713 has 32 MA's), (22, 53779), (33, 53938), (39, 54016), (40, 54022),

Gene: Giantsbane_89 Start: 52050, Stop: 52391, Start Num: 11
Candidate Starts for Giantsbane_89:
(2, 51999), (Start: 11 @52050 has 32 MA's), (25, 52140), (29, 52203), (34, 52293), (39, 52365),

Gene: Gordon_83 Start: 53571, Stop: 53912, Start Num: 11
Candidate Starts for Gordon_83:
(Start: 11 @53571 has 32 MA's), (33, 53805), (40, 53892),

Gene: Hemma_82 Start: 50447, Stop: 50815, Start Num: 11
Candidate Starts for Hemma_82:
(9, 50444), (Start: 11 @50447 has 32 MA's), (18, 50492), (19, 50495), (20, 50507), (29, 50597), (30, 50606), (33, 50678), (41, 50783),

Gene: Inked_89 Start: 53147, Stop: 53497, Start Num: 11
Candidate Starts for Inked_89:
(Start: 11 @53147 has 32 MA's), (15, 53180), (20, 53207), (21, 53210), (23, 53225), (29, 53312), (33, 53393), (34, 53402),

Gene: Issa_79 Start: 52532, Stop: 52861, Start Num: 11
Candidate Starts for Issa_79:
(6, 52520), (Start: 11 @52532 has 32 MA's), (33, 52757), (37, 52814), (39, 52835),

Gene: LilHuddy_87 Start: 52668, Stop: 52979, Start Num: 11
Candidate Starts for LilHuddy_87:
(4, 52635), (Start: 11 @52668 has 32 MA's), (16, 52704), (29, 52827), (38, 52950), (40, 52959),

Gene: LucySwiss_89 Start: 53378, Stop: 53707, Start Num: 11
Candidate Starts for LucySwiss_89:
(Start: 11 @53378 has 32 MA's), (24, 53459), (33, 53603), (37, 53660), (39, 53681),

Gene: Makai_87 Start: 53117, Stop: 53524, Start Num: 3
Candidate Starts for Makai_87:
(Start: 3 @53117 has 2 MA's), (10, 53168), (12, 53171), (29, 53339), (32, 53372), (34, 53429), (35, 53462), (36, 53474), (38, 53495), (39, 53498), (40, 53504),

Gene: MediumFry_81 Start: 52266, Stop: 52610, Start Num: 11
Candidate Starts for MediumFry_81:
(7, 52257), (Start: 11 @52266 has 32 MA's), (13, 52278), (21, 52329), (27, 52383), (29, 52425),

Gene: MiniBagel_87 Start: 53583, Stop: 53912, Start Num: 11
Candidate Starts for MiniBagel_87:
(Start: 11 @53583 has 32 MA's), (14, 53607), (28, 53712), (33, 53808), (39, 53886), (40, 53892),

Gene: Nightmare_88 Start: 54136, Stop: 54474, Start Num: 11
Candidate Starts for Nightmare_88:
(Start: 11 @54136 has 32 MA's), (33, 54370), (39, 54448), (40, 54454),

Gene: Niktson_87 Start: 53713, Stop: 54042, Start Num: 11
Candidate Starts for Niktson_87:
(1, 53650), (8, 53704), (Start: 11 @53713 has 32 MA's), (22, 53779), (33, 53938), (39, 54016), (40, 54022),

Gene: Nivinsha_89 Start: 53482, Stop: 53811, Start Num: 11
Candidate Starts for Nivinsha_89:
(Start: 11 @53482 has 32 MA's), (33, 53707), (38, 53782), (39, 53785), (40, 53791),

Gene: Phaby_87 Start: 52568, Stop: 52912, Start Num: 11
Candidate Starts for Phaby_87:
(4, 52535), (5, 52544), (Start: 11 @52568 has 32 MA's), (13, 52580), (29, 52727), (38, 52883), (40, 52892),

Gene: ScienceWizSam_90 Start: 53525, Stop: 53854, Start Num: 11
Candidate Starts for ScienceWizSam_90:
(Start: 11 @53525 has 32 MA's), (14, 53549), (22, 53591), (33, 53750), (39, 53828), (40, 53834),

Gene: Shepard_87 Start: 52586, Stop: 52912, Start Num: 11
Candidate Starts for Shepard_87:
(9, 52583), (Start: 11 @52586 has 32 MA's), (16, 52622), (26, 52682), (29, 52727), (33, 52808), (40, 52892),

Gene: Synopsis_80 Start: 52844, Stop: 53176, Start Num: 11
Candidate Starts for Synopsis_80:
(Start: 11 @52844 has 32 MA's), (33, 53069), (39, 53150), (40, 53156),

Gene: Tatanka_82 Start: 53424, Stop: 53753, Start Num: 11
Candidate Starts for Tatanka_82:
(Start: 11 @53424 has 32 MA's), (33, 53649), (38, 53724), (39, 53727), (40, 53733),

Gene: Teacup_84 Start: 53545, Stop: 53874, Start Num: 11
Candidate Starts for Teacup_84:
(6, 53533), (Start: 11 @53545 has 32 MA's), (14, 53569), (33, 53770), (40, 53854),

Gene: Tenno_86 Start: 53500, Stop: 53829, Start Num: 11
Candidate Starts for Tenno_86:
(6, 53488), (Start: 11 @53500 has 32 MA's), (33, 53725), (39, 53803), (40, 53809),

Gene: Tipton_89 Start: 52936, Stop: 53283, Start Num: 11
Candidate Starts for Tipton_89:
(2, 52885), (Start: 11 @52936 has 32 MA's), (13, 52948), (21, 52999), (29, 53095),

Gene: Tokki_93 Start: 52937, Stop: 53284, Start Num: 11
Candidate Starts for Tokki_93:
(Start: 11 @52937 has 32 MA's), (13, 52949), (29, 53096),

Gene: Truckee_84 Start: 52878, Stop: 53276, Start Num: 3
Candidate Starts for Truckee_84:
(Start: 3 @52878 has 2 MA's), (9, 52926), (Start: 11 @52929 has 32 MA's), (13, 52941), (29, 53091),
(31, 53103), (32, 53124), (34, 53181), (35, 53214), (36, 53226), (38, 53247), (39, 53250), (40, 53256),

Gene: Trustiboi_86 Start: 53537, Stop: 53875, Start Num: 11
Candidate Starts for Trustiboi_86:
(Start: 11 @53537 has 32 MA's), (33, 53771), (39, 53849),

Gene: Westerlin_82 Start: 54149, Stop: 54490, Start Num: 6
Candidate Starts for Westerlin_82:
(6, 54149), (Start: 11 @54161 has 32 MA's), (14, 54185), (33, 54386), (39, 54464), (40, 54470),

Gene: Zippen_91 Start: 53424, Stop: 53750, Start Num: 11
Candidate Starts for Zippen_91:
(9, 53421), (Start: 11 @53424 has 32 MA's), (13, 53436), (16, 53460), (26, 53520), (29, 53565), (33,
53646), (39, 53724), (40, 53730), (42, 53745),