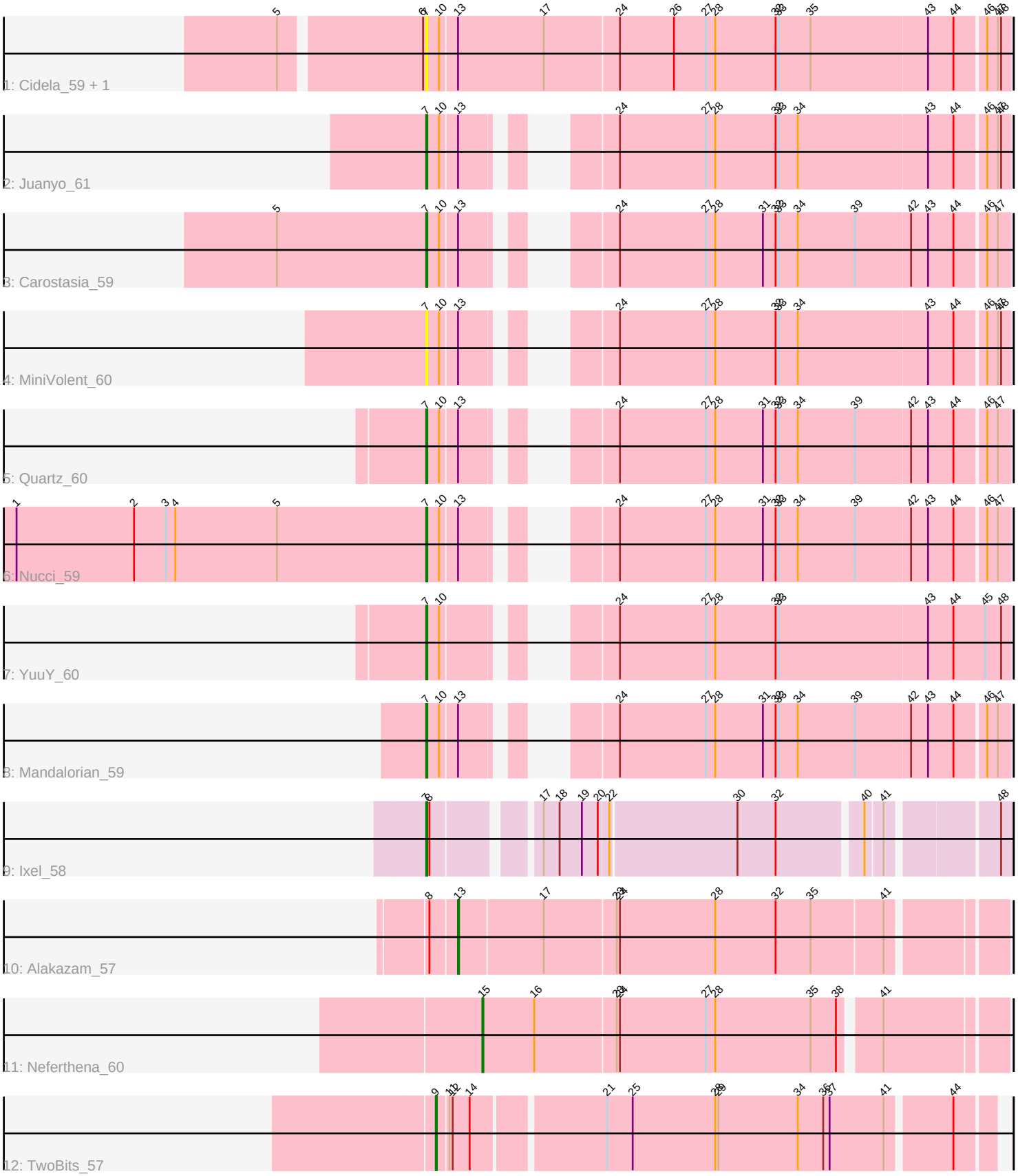
Pham 344558


1: Cidela_59 + 1
2: Juanyo_61
3: Carostasia_59
4: MiniVolent_60
5: Quartz_60
6: Nucci_59
7: YuuY_60
8: Mandalorian_59
9: Ixel_58
10: Alakazam_57
11: Neferthena_60
12: TwoBits_57

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 344558 Report

This analysis was run 11/14/26 on database version 672.

Pham number 344558 has 13 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Cidela_59, Fabyndrax_59
• Track 2 : Juanyo_61
• Track 3 : Carostasia_59
• Track 4 : MiniVolent_60
• Track 5 : Quartz_60
• Track 6 : Nucci_59
• Track 7 : YuuY_60
• Track 8 : Mandalorian_59
• Track 9 : Ixel_58
• Track 10 : Alakazam_57
• Track 11 : Neferthena_60
• Track 12 : TwoBits_57

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

The start number called the most often in the published annotations is 7, it was called in 7 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Carostasia_59, Cidela_59, Fabyndrax_59, Ixel_58, Juanyo_61, Mandalorian_59, MiniVolent_60, Nucci_59, Quartz_60, YuuY_60,

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

Genes that do not have the "Most Annotated" start:
• Alakazam_57, Neferthena_60, TwoBits_57,

Summary by start number:

Start 7:
• Found in 10 of 13 (76.9%) of genes in pham
• Manual Annotations of this start: 7 of 10
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Carostasia_59 (EA10), Cidela_59 (EA10), Fabyndrax_59 (EA10), Ixel_58 (EA11), Juanyo_61 (EA10), Mandalorian_59 (EA10), MiniVolent_60 (EA10), Nucci_59 (EA10), Quartz_60 (EA10), YuuY_60 (EA10),

Start 9:
• Found in 1 of 13 (7.7%) 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: TwoBits_57 (EA5),

Start 13:
• Found in 9 of 13 (69.2%) of genes in pham
• Manual Annotations of this start: 1 of 10
• Called 11.1% of time when present
• Phage (with cluster) where this start called: Alakazam_57 (EA5),

Start 15:
• Found in 1 of 13 (7.7%) 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: Neferthena_60 (EA5),

Summary by clusters:

There are 3 clusters represented in this pham: EA11, EA5, EA10,

Info for manual annotations of cluster EA10:
•Start number 7 was manually annotated 6 times for cluster EA10.

Info for manual annotations of cluster EA11:
•Start number 7 was manually annotated 1 time for cluster EA11.

Info for manual annotations of cluster EA5:
•Start number 9 was manually annotated 1 time for cluster EA5.
•Start number 13 was manually annotated 1 time for cluster EA5.
•Start number 15 was manually annotated 1 time for cluster EA5.

Gene Information:

Gene: Alakazam_57 Start: 39528, Stop: 39034, Start Num: 13
Candidate Starts for Alakazam_57:
(8, 39552), (Start: 13 @39528 has 1 MA's), (17, 39450), (23, 39384), (24, 39381), (28, 39291), (32, 39234), (35, 39201), (41, 39135),

Gene: Carostasia_59 Start: 39066, Stop: 38590, Start Num: 7
Candidate Starts for Carostasia_59:
(5, 39204), (Start: 7 @39066 has 7 MA's), (10, 39054), (Start: 13 @39039 has 1 MA's), (24, 38949), (27, 38868), (28, 38859), (31, 38814), (32, 38802), (33, 38799), (34, 38781), (39, 38727), (42, 38676), (43, 38661), (44, 38637), (46, 38610), (47, 38601),

Gene: Cidela_59 Start: 40046, Stop: 39510, Start Num: 7
Candidate Starts for Cidela_59:
(5, 40175), (6, 40049), (Start: 7 @40046 has 7 MA's), (10, 40034), (Start: 13 @40019 has 1 MA's), (17, 39938), (24, 39869), (26, 39818), (27, 39788), (28, 39779), (32, 39722), (33, 39719), (35, 39689), (43, 39581), (44, 39557), (46, 39530), (47, 39521), (48, 39518),

Gene: Fabyndrax_59 Start: 40058, Stop: 39522, Start Num: 7
Candidate Starts for Fabyndrax_59:
(5, 40187), (6, 40061), (Start: 7 @40058 has 7 MA's), (10, 40046), (Start: 13 @40031 has 1 MA's), (17, 39950), (24, 39881), (26, 39830), (27, 39800), (28, 39791), (32, 39734), (33, 39731), (35, 39701), (43, 39593), (44, 39569), (46, 39542), (47, 39533), (48, 39530),

Gene: Ixel_58 Start: 38997, Stop: 38503, Start Num: 7
Candidate Starts for Ixel_58:
(Start: 7 @38997 has 7 MA's), (8, 38994), (17, 38910), (18, 38895), (19, 38874), (20, 38859), (22, 38850), (30, 38733), (32, 38697), (40, 38622), (41, 38607), (48, 38514),

Gene: Juanyo_61 Start: 39749, Stop: 39273, Start Num: 7
Candidate Starts for Juanyo_61:
(Start: 7 @39749 has 7 MA's), (10, 39737), (Start: 13 @39722 has 1 MA's), (24, 39632), (27, 39551), (28, 39542), (32, 39485), (33, 39482), (34, 39464), (43, 39344), (44, 39320), (46, 39293), (47, 39284), (48, 39281),

Gene: Mandalorian_59 Start: 39077, Stop: 38601, Start Num: 7
Candidate Starts for Mandalorian_59:
(Start: 7 @39077 has 7 MA's), (10, 39065), (Start: 13 @39050 has 1 MA's), (24, 38960), (27, 38879), (28, 38870), (31, 38825), (32, 38813), (33, 38810), (34, 38792), (39, 38738), (42, 38687), (43, 38672), (44, 38648), (46, 38621), (47, 38612),

Gene: MiniVolent_60 Start: 39716, Stop: 39240, Start Num: 7
Candidate Starts for MiniVolent_60:
(Start: 7 @39716 has 7 MA's), (10, 39704), (Start: 13 @39689 has 1 MA's), (24, 39599), (27, 39518), (28, 39509), (32, 39452), (33, 39449), (34, 39431), (43, 39311), (44, 39287), (46, 39260), (47, 39251), (48, 39248),

Gene: Neferthena_60 Start: 39850, Stop: 39377, Start Num: 15
Candidate Starts for Neferthena_60:
(Start: 15 @39850 has 1 MA's), (16, 39802), (23, 39727), (24, 39724), (27, 39643), (28, 39634), (35, 39544), (38, 39520), (41, 39487),

Gene: Nucci_59 Start: 39046, Stop: 38570, Start Num: 7
Candidate Starts for Nucci_59:
(1, 39430), (2, 39319), (3, 39289), (4, 39280), (5, 39184), (Start: 7 @39046 has 7 MA's), (10, 39034), (Start: 13 @39019 has 1 MA's), (24, 38929), (27, 38848), (28, 38839), (31, 38794), (32, 38782), (33, 38779), (34, 38761), (39, 38707), (42, 38656), (43, 38641), (44, 38617), (46, 38590), (47, 38581),

Gene: Quartz_60 Start: 39190, Stop: 38714, Start Num: 7
Candidate Starts for Quartz_60:
(Start: 7 @39190 has 7 MA's), (10, 39178), (Start: 13 @39163 has 1 MA's), (24, 39073), (27, 38992), (28, 38983), (31, 38938), (32, 38926), (33, 38923), (34, 38905), (39, 38851), (42, 38800), (43, 38785), (44, 38761), (46, 38734), (47, 38725),

Gene: TwoBits_57 Start: 38723, Stop: 38226, Start Num: 9

Candidate Starts for TwoBits_57:
(Start: 9 @38723 has 1 MA's), (11, 38714), (12, 38711), (14, 38696), (21, 38579), (25, 38555), (28, 38477), (29, 38474), (34, 38399), (36, 38375), (37, 38369), (41, 38318), (44, 38261),

Gene: YuuY_60 Start: 39625, Stop: 39143, Start Num: 7
Candidate Starts for YuuY_60:
(Start: 7 @39625 has 7 MA's), (10, 39613), (24, 39508), (27, 39427), (28, 39418), (32, 39361), (33, 39358), (43, 39220), (44, 39196), (45, 39166), (48, 39151),