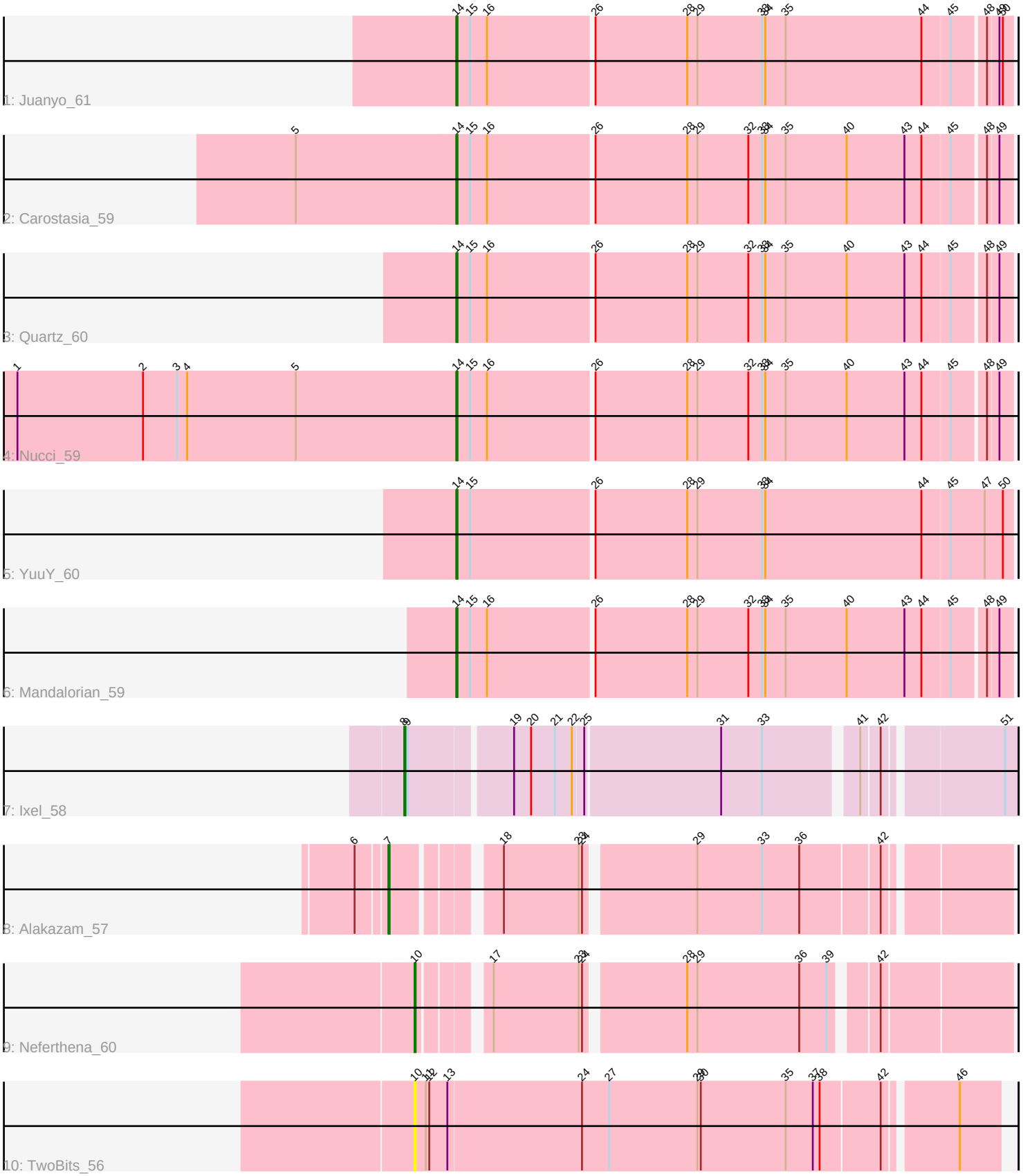
Pham 218524


1: Juanyo_61
2: Carostasia_59
3: Quartz_60
4: Nucci_59
5: YuuY_60
6: Mandalorian_59
7: Ixel_58
8: Alakazam_57
9: Neferthena_60
10: TwoBits_56

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 218524 Report

This analysis was run 03/28/25 on database version 593.

Pham number 218524 has 10 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Juanyo_61
• Track 2 : Carostasia_59
• Track 3 : Quartz_60
• Track 4 : Nucci_59
• Track 5 : YuuY_60
• Track 6 : Mandalorian_59
• Track 7 : Ixel_58
• Track 8 : Alakazam_57
• Track 9 : Neferthena_60
• Track 10 : TwoBits_56

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

The start number called the most often in the published annotations is 14, it was called in 6 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Carostasia_59, Juanyo_61, Mandalorian_59, 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, Ixel_58, Neferthena_60, TwoBits_56,

Summary by start number:

Start 7:
• Found in 1 of 10 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alakazam_57 (EA5),

Start 8:

• Found in 1 of 10 (10.0%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ixel_58 (EA11),

Start 10:
• Found in 2 of 10 (20.0%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Neferthena_60 (EA5), TwoBits_56 (EA5),

Start 14:
• Found in 6 of 10 (60.0%) of genes in pham
• Manual Annotations of this start: 6 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Carostasia_59 (EA10), Juanyo_61 (EA10), Mandalorian_59 (EA10), Nucci_59 (EA10), Quartz_60 (EA10), YuuY_60 (EA10),

Summary by clusters:

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

Info for manual annotations of cluster EA10:
•Start number 14 was manually annotated 6 times for cluster EA10.

Info for manual annotations of cluster EA11:
•Start number 8 was manually annotated 1 time for cluster EA11.

Info for manual annotations of cluster EA5:
•Start number 7 was manually annotated 1 time for cluster EA5.
•Start number 10 was manually annotated 1 time for cluster EA5.

Gene Information:

Gene: Alakazam_57 Start: 39528, Stop: 39034, Start Num: 7
Candidate Starts for Alakazam_57:
(6, 39552), (Start: 7 @39528 has 1 MA's), (18, 39450), (23, 39384), (24, 39381), (29, 39291), (33, 39234), (36, 39201), (42, 39135),

Gene: Carostasia_59 Start: 39066, Stop: 38590, Start Num: 14
Candidate Starts for Carostasia_59:
(5, 39204), (Start: 14 @39066 has 6 MA's), (15, 39054), (16, 39039), (26, 38949), (28, 38868), (29, 38859), (32, 38814), (33, 38802), (34, 38799), (35, 38781), (40, 38727), (43, 38676), (44, 38661), (45, 38637), (48, 38610), (49, 38601),

Gene: Ixel_58 Start: 38997, Stop: 38503, Start Num: 8
Candidate Starts for Ixel_58:
(Start: 8 @38997 has 1 MA's), (9, 38994), (19, 38910), (20, 38895), (21, 38874), (22, 38859), (25, 38850), (31, 38733), (33, 38697), (41, 38622), (42, 38607), (51, 38514),

Gene: Juanyo_61 Start: 39749, Stop: 39273, Start Num: 14
Candidate Starts for Juanyo_61:
(Start: 14 @39749 has 6 MA's), (15, 39737), (16, 39722), (26, 39632), (28, 39551), (29, 39542), (33, 39485), (34, 39482), (35, 39464), (44, 39344), (45, 39320), (48, 39293), (49, 39284), (50, 39281),

Gene: Mandalorian_59 Start: 39077, Stop: 38601, Start Num: 14
Candidate Starts for Mandalorian_59:
(Start: 14 @39077 has 6 MA's), (15, 39065), (16, 39050), (26, 38960), (28, 38879), (29, 38870), (32, 38825), (33, 38813), (34, 38810), (35, 38792), (40, 38738), (43, 38687), (44, 38672), (45, 38648), (48, 38621), (49, 38612),

Gene: Neferthena_60 Start: 39850, Stop: 39377, Start Num: 10
Candidate Starts for Neferthena_60:
(Start: 10 @39850 has 1 MA's), (17, 39802), (23, 39727), (24, 39724), (28, 39643), (29, 39634), (36, 39544), (39, 39520), (42, 39487),

Gene: Nucci_59 Start: 39046, Stop: 38570, Start Num: 14
Candidate Starts for Nucci_59:
(1, 39430), (2, 39319), (3, 39289), (4, 39280), (5, 39184), (Start: 14 @39046 has 6 MA's), (15, 39034), (16, 39019), (26, 38929), (28, 38848), (29, 38839), (32, 38794), (33, 38782), (34, 38779), (35, 38761), (40, 38707), (43, 38656), (44, 38641), (45, 38617), (48, 38590), (49, 38581),

Gene: Quartz_60 Start: 39190, Stop: 38714, Start Num: 14
Candidate Starts for Quartz_60:
(Start: 14 @39190 has 6 MA's), (15, 39178), (16, 39163), (26, 39073), (28, 38992), (29, 38983), (32, 38938), (33, 38926), (34, 38923), (35, 38905), (40, 38851), (43, 38800), (44, 38785), (45, 38761), (48, 38734), (49, 38725),

Gene: TwoBits_56 Start: 38723, Stop: 38226, Start Num: 10
Candidate Starts for TwoBits_56:
(Start: 10 @38723 has 1 MA's), (11, 38714), (12, 38711), (13, 38696), (24, 38579), (27, 38555), (29, 38477), (30, 38474), (35, 38399), (37, 38375), (38, 38369), (42, 38318), (46, 38261),

Gene: YuuY_60 Start: 39625, Stop: 39143, Start Num: 14
Candidate Starts for YuuY_60:
(Start: 14 @39625 has 6 MA's), (15, 39613), (26, 39508), (28, 39427), (29, 39418), (33, 39361), (34, 39358), (44, 39220), (45, 39196), (47, 39166), (50, 39151),