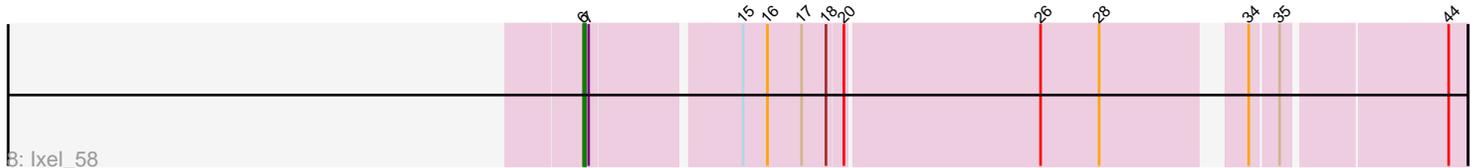
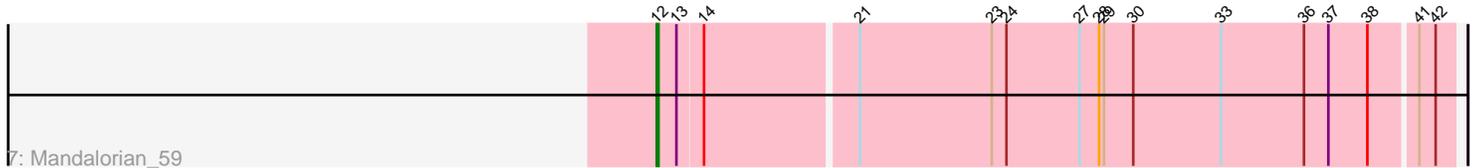
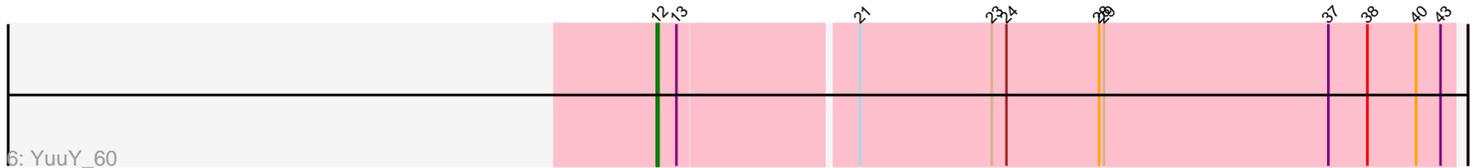
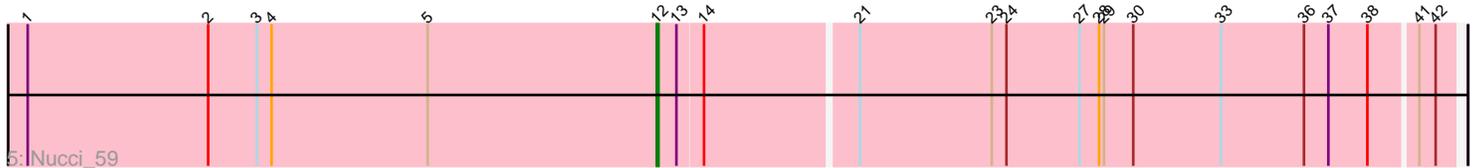
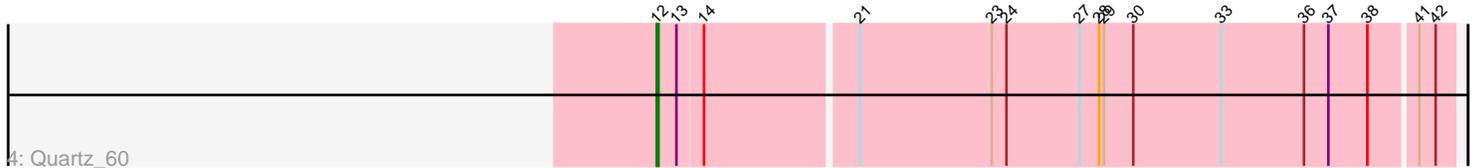
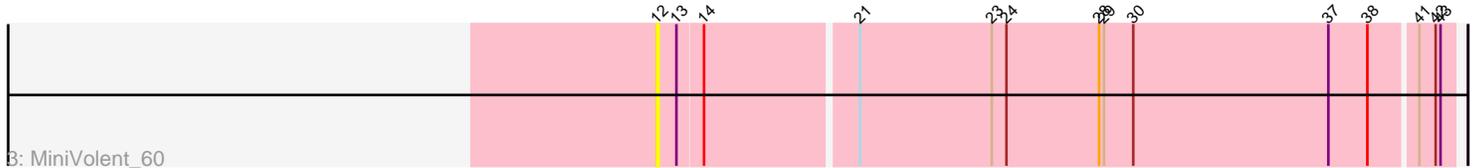
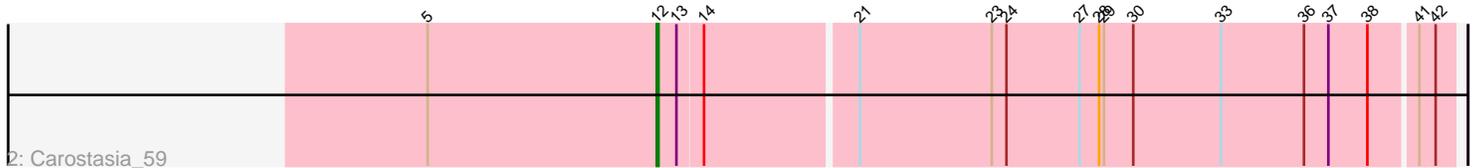
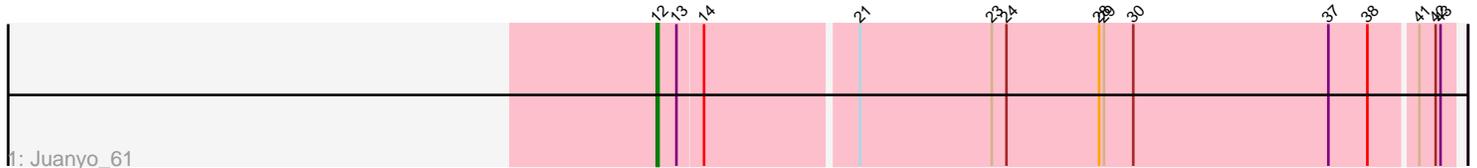


Pham 291790



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 291790 Report

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

Pham number 291790 has 9 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Juanyo_61
- Track 2 : Carostasia_59
- Track 3 : MiniVolent_60
- Track 4 : Quartz_60
- Track 5 : Nucci_59
- Track 6 : YuuY_60
- Track 7 : Mandalorian_59
- Track 8 : Ixel_58
- Track 9 : 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 12, it was called in 6 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Carostasia_59, 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:

- Ixel_58, TwoBits_56,

Summary by start number:

Start 6:

- Found in 1 of 9 (11.1%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ixel_58 (EA11),

Start 8:

- Found in 1 of 9 (11.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TwoBits_56 (EA5),

Start 12:

- Found in 7 of 9 (77.8%) of genes in pham
- Manual Annotations of this start: 6 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Carostasia_59 (EA10), Juanyo_61 (EA10), Mandalorian_59 (EA10), MiniVolent_60 (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 12 was manually annotated 6 times for cluster EA10.

Info for manual annotations of cluster EA11:

- Start number 6 was manually annotated 1 time for cluster EA11.

Gene Information:

Gene: Carostasia_59 Start: 39066, Stop: 38590, Start Num: 12

Candidate Starts for Carostasia_59:

(5, 39204), (Start: 12 @39066 has 6 MA's), (13, 39054), (14, 39039), (21, 38949), (23, 38868), (24, 38859), (27, 38814), (28, 38802), (29, 38799), (30, 38781), (33, 38727), (36, 38676), (37, 38661), (38, 38637), (41, 38610), (42, 38601),

Gene: Ixel_58 Start: 38997, Stop: 38503, Start Num: 6

Candidate Starts for Ixel_58:

(Start: 6 @38997 has 1 MA's), (7, 38994), (15, 38910), (16, 38895), (17, 38874), (18, 38859), (20, 38850), (26, 38733), (28, 38697), (34, 38622), (35, 38607), (44, 38514),

Gene: Juanyo_61 Start: 39749, Stop: 39273, Start Num: 12

Candidate Starts for Juanyo_61:

(Start: 12 @39749 has 6 MA's), (13, 39737), (14, 39722), (21, 39632), (23, 39551), (24, 39542), (28, 39485), (29, 39482), (30, 39464), (37, 39344), (38, 39320), (41, 39293), (42, 39284), (43, 39281),

Gene: Mandalorian_59 Start: 39077, Stop: 38601, Start Num: 12

Candidate Starts for Mandalorian_59:

(Start: 12 @39077 has 6 MA's), (13, 39065), (14, 39050), (21, 38960), (23, 38879), (24, 38870), (27, 38825), (28, 38813), (29, 38810), (30, 38792), (33, 38738), (36, 38687), (37, 38672), (38, 38648), (41, 38621), (42, 38612),

Gene: MiniVolent_60 Start: 39716, Stop: 39240, Start Num: 12

Candidate Starts for MiniVolent_60:

(Start: 12 @39716 has 6 MA's), (13, 39704), (14, 39689), (21, 39599), (23, 39518), (24, 39509), (28, 39452), (29, 39449), (30, 39431), (37, 39311), (38, 39287), (41, 39260), (42, 39251), (43, 39248),

Gene: Nucci_59 Start: 39046, Stop: 38570, Start Num: 12

Candidate Starts for Nucci_59:

(1, 39430), (2, 39319), (3, 39289), (4, 39280), (5, 39184), (Start: 12 @39046 has 6 MA's), (13, 39034), (14, 39019), (21, 38929), (23, 38848), (24, 38839), (27, 38794), (28, 38782), (29, 38779), (30, 38761), (33, 38707), (36, 38656), (37, 38641), (38, 38617), (41, 38590), (42, 38581),

Gene: Quartz_60 Start: 39190, Stop: 38714, Start Num: 12

Candidate Starts for Quartz_60:

(Start: 12 @39190 has 6 MA's), (13, 39178), (14, 39163), (21, 39073), (23, 38992), (24, 38983), (27, 38938), (28, 38926), (29, 38923), (30, 38905), (33, 38851), (36, 38800), (37, 38785), (38, 38761), (41, 38734), (42, 38725),

Gene: TwoBits_56 Start: 38723, Stop: 38226, Start Num: 8

Candidate Starts for TwoBits_56:

(8, 38723), (9, 38714), (10, 38711), (11, 38696), (19, 38579), (22, 38555), (24, 38477), (25, 38474), (30, 38399), (31, 38375), (32, 38369), (35, 38318), (39, 38261),

Gene: YuuY_60 Start: 39625, Stop: 39143, Start Num: 12

Candidate Starts for YuuY_60:

(Start: 12 @39625 has 6 MA's), (13, 39613), (21, 39508), (23, 39427), (24, 39418), (28, 39361), (29, 39358), (37, 39220), (38, 39196), (40, 39166), (43, 39151),