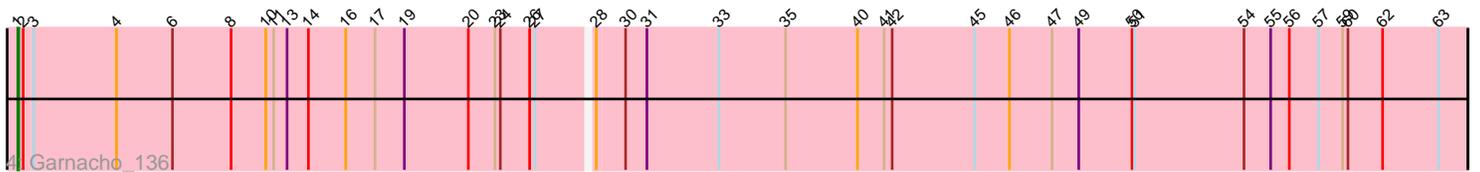
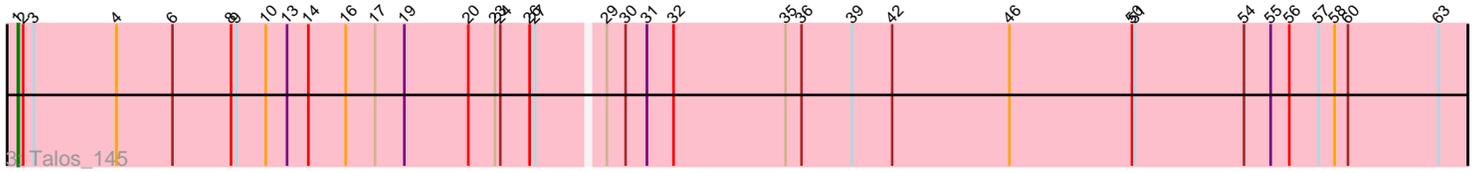
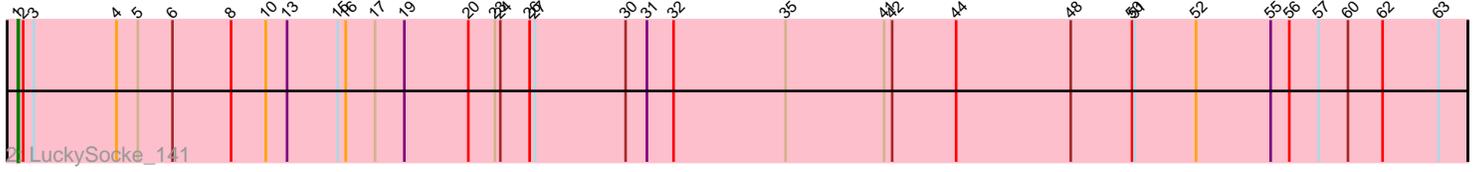
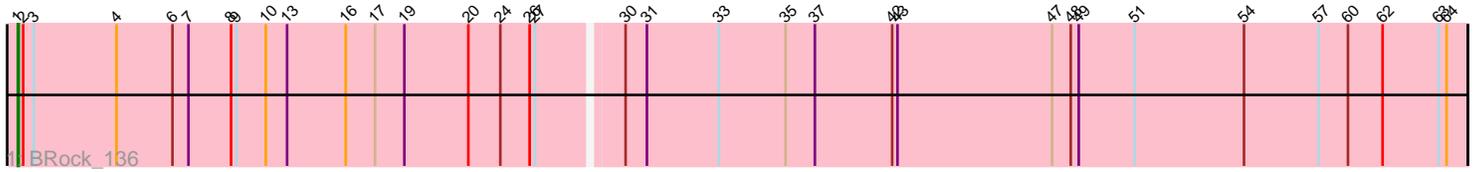


Pham 291794



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 291794 Report

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

Pham number 291794 has 9 members, 3 are drafts.

Phages represented in each track:

- Track 1 : BRock\_136
- Track 2 : LuckySocke\_141
- Track 3 : Talos\_145
- Track 4 : Garnacho\_136
- Track 5 : Beleetus\_142
- Track 6 : Fudan\_144
- Track 7 : Park1214\_149
- Track 8 : Alone3\_146
- Track 9 : GiJojo\_135

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

The start number called the most often in the published annotations is 1, it was called in 5 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alone3\_146, BRock\_136, Beleetus\_142, Garnacho\_136, LuckySocke\_141, Talos\_145,

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

- Fudan\_144,

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

- GiJojo\_135, Park1214\_149,

### **Summary by start number:**

Start 1:

- Found in 7 of 9 ( 77.8% ) of genes in pham
- Manual Annotations of this start: 5 of 6
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Alone3\_146 (BS), BRock\_136 (BS), Beleetus\_142 (BS), Garnacho\_136 (BS), LuckySocke\_141 (BS), Talos\_145 (BS),

Start 2:

- Found in 9 of 9 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 22.2% of time when present
- Phage (with cluster) where this start called: GiJojo\_135 (BS), Park1214\_149 (BS),

Start 4:

- Found in 9 of 9 ( 100.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Fudan\_144 (BS),

**Summary by clusters:**

There is one cluster represented in this pham: BS

Info for manual annotations of cluster BS:

- Start number 1 was manually annotated 5 times for cluster BS.
- Start number 2 was manually annotated 1 time for cluster BS.

**Gene Information:**

Gene: Alone3\_146 Start: 78919, Stop: 80550, Start Num: 1

Candidate Starts for Alone3\_146:

(Start: 1 @78919 has 5 MA's), (Start: 2 @78925 has 1 MA's), (3, 78937), (4, 79030), (5, 79054), (6, 79093), (8, 79159), (10, 79198), (13, 79222), (15, 79279), (16, 79288), (17, 79321), (19, 79354), (20, 79426), (23, 79456), (24, 79462), (26, 79495), (27, 79501), (30, 79603), (31, 79627), (32, 79657), (35, 79783), (41, 79894), (42, 79903), (44, 79975), (48, 80104), (50, 80173), (51, 80176), (52, 80245), (53, 80287), (54, 80299), (55, 80329), (56, 80350), (57, 80383), (60, 80416), (61, 80449), (62, 80455), (63, 80518), (64, 80527),

Gene: BRock\_136 Start: 73464, Stop: 75080, Start Num: 1

Candidate Starts for BRock\_136:

(Start: 1 @73464 has 5 MA's), (Start: 2 @73470 has 1 MA's), (3, 73482), (4, 73575), (6, 73638), (7, 73656), (8, 73704), (9, 73710), (10, 73743), (13, 73767), (16, 73833), (17, 73866), (19, 73899), (20, 73971), (24, 74007), (26, 74040), (27, 74046), (30, 74133), (31, 74157), (33, 74238), (35, 74313), (37, 74346), (42, 74433), (43, 74439), (47, 74613), (48, 74634), (49, 74643), (51, 74706), (54, 74829), (57, 74913), (60, 74946), (62, 74985), (63, 75048), (64, 75057),

Gene: Beleetus\_142 Start: 76502, Stop: 78118, Start Num: 1

Candidate Starts for Beleetus\_142:

(Start: 1 @76502 has 5 MA's), (Start: 2 @76508 has 1 MA's), (3, 76520), (4, 76613), (5, 76637), (6, 76676), (8, 76742), (9, 76748), (10, 76781), (13, 76805), (16, 76871), (17, 76904), (19, 76937), (20, 77009), (23, 77039), (24, 77045), (26, 77078), (27, 77084), (29, 77150), (30, 77171), (31, 77195), (32, 77225), (35, 77351), (41, 77462), (42, 77471), (44, 77543), (46, 77603), (50, 77741), (52, 77813), (53, 77855), (54, 77867), (55, 77897), (56, 77918), (57, 77951), (60, 77984), (62, 78023), (63, 78086), (64, 78095),

Gene: Fudan\_144 Start: 76994, Stop: 78514, Start Num: 4

Candidate Starts for Fudan\_144:

(Start: 1 @76883 has 5 MA's), (Start: 2 @76889 has 1 MA's), (3, 76901), (4, 76994), (5, 77018), (6, 77057), (8, 77123), (10, 77162), (13, 77186), (15, 77243), (16, 77252), (17, 77285), (19, 77318), (20, 77390), (23, 77420), (24, 77426), (26, 77459), (27, 77465), (30, 77567), (31, 77591), (32, 77621), (35, 77747), (41, 77858), (42, 77867), (44, 77939), (48, 78068), (50, 78137), (51, 78140), (52, 78209), (55, 78293), (56, 78314), (57, 78347), (60, 78380), (62, 78419), (63, 78482),

Gene: Garnacho\_136 Start: 76507, Stop: 78120, Start Num: 1

Candidate Starts for Garnacho\_136:

(Start: 1 @76507 has 5 MA's), (Start: 2 @76513 has 1 MA's), (3, 76522), (4, 76615), (6, 76678), (8, 76744), (10, 76783), (11, 76792), (13, 76807), (14, 76831), (16, 76873), (17, 76906), (19, 76939), (20, 77011), (23, 77041), (24, 77047), (26, 77080), (27, 77086), (28, 77143), (30, 77173), (31, 77197), (33, 77278), (35, 77353), (40, 77434), (41, 77464), (42, 77473), (45, 77566), (46, 77605), (47, 77653), (49, 77683), (50, 77743), (51, 77746), (54, 77869), (55, 77899), (56, 77920), (57, 77953), (59, 77980), (60, 77986), (62, 78025), (63, 78088),

Gene: GiJojo\_135 Start: 78278, Stop: 79900, Start Num: 2

Candidate Starts for GiJojo\_135:

(Start: 2 @78278 has 1 MA's), (3, 78287), (4, 78380), (8, 78509), (9, 78515), (11, 78557), (13, 78572), (14, 78596), (16, 78638), (17, 78671), (18, 78680), (19, 78704), (20, 78776), (24, 78812), (25, 78818), (27, 78851), (31, 78977), (32, 79007), (34, 79106), (36, 79151), (38, 79193), (39, 79208), (42, 79253), (51, 79526), (53, 79637), (54, 79649), (55, 79679), (56, 79700), (57, 79733), (58, 79751), (60, 79766), (62, 79805), (63, 79868),

Gene: LuckySocke\_141 Start: 76832, Stop: 78463, Start Num: 1

Candidate Starts for LuckySocke\_141:

(Start: 1 @76832 has 5 MA's), (Start: 2 @76838 has 1 MA's), (3, 76850), (4, 76943), (5, 76967), (6, 77006), (8, 77072), (10, 77111), (13, 77135), (15, 77192), (16, 77201), (17, 77234), (19, 77267), (20, 77339), (23, 77369), (24, 77375), (26, 77408), (27, 77414), (30, 77516), (31, 77540), (32, 77570), (35, 77696), (41, 77807), (42, 77816), (44, 77888), (48, 78017), (50, 78086), (51, 78089), (52, 78158), (55, 78242), (56, 78263), (57, 78296), (60, 78329), (62, 78368), (63, 78431),

Gene: Park1214\_149 Start: 77842, Stop: 79449, Start Num: 2

Candidate Starts for Park1214\_149:

(Start: 2 @77842 has 1 MA's), (3, 77851), (4, 77944), (6, 78007), (8, 78073), (9, 78079), (10, 78112), (11, 78121), (12, 78133), (13, 78136), (16, 78202), (17, 78235), (19, 78268), (20, 78340), (21, 78346), (22, 78367), (24, 78376), (26, 78409), (27, 78415), (29, 78481), (30, 78502), (31, 78526), (35, 78682), (36, 78700), (41, 78793), (42, 78802), (50, 79072), (51, 79075), (54, 79198), (55, 79228), (56, 79249), (57, 79282), (60, 79315), (62, 79354), (63, 79417), (65, 79435),

Gene: Talos\_145 Start: 77070, Stop: 78686, Start Num: 1

Candidate Starts for Talos\_145:

(Start: 1 @77070 has 5 MA's), (Start: 2 @77076 has 1 MA's), (3, 77088), (4, 77181), (6, 77244), (8, 77310), (9, 77316), (10, 77349), (13, 77373), (14, 77397), (16, 77439), (17, 77472), (19, 77505), (20, 77577), (23, 77607), (24, 77613), (26, 77646), (27, 77652), (29, 77718), (30, 77739), (31, 77763), (32, 77793), (35, 77919), (36, 77937), (39, 77994), (42, 78039), (46, 78171), (50, 78309), (51, 78312), (54, 78435), (55, 78465), (56, 78486), (57, 78519), (58, 78537), (60, 78552), (63, 78654),