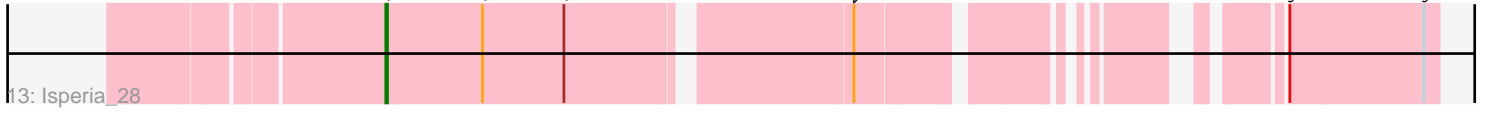
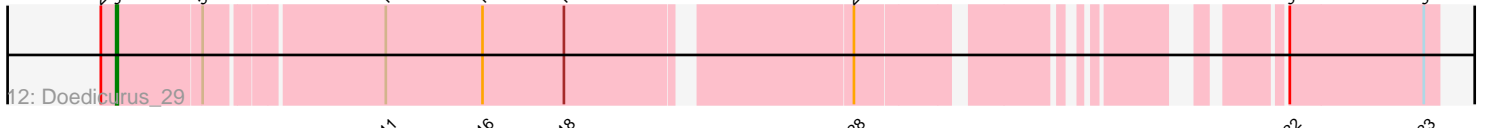
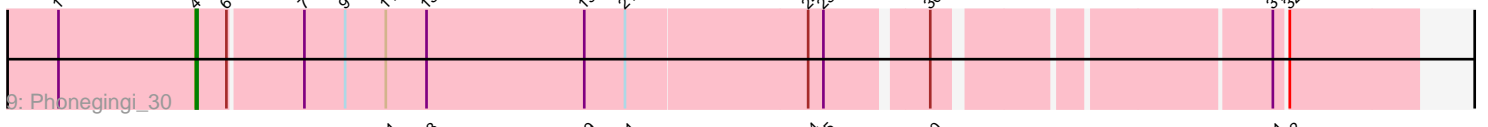
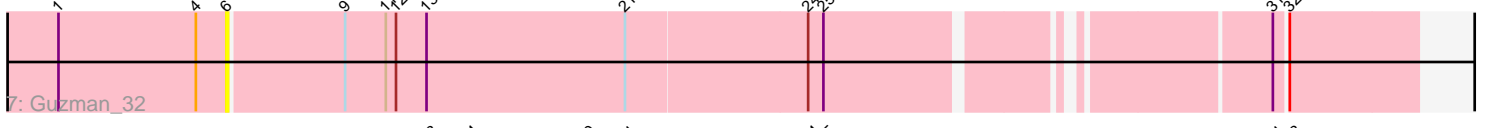
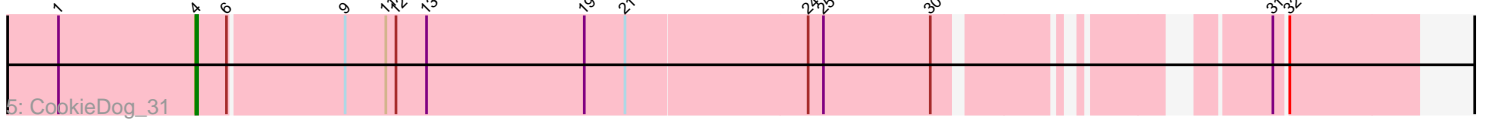
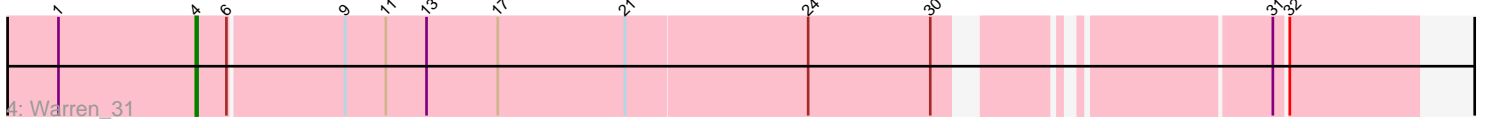
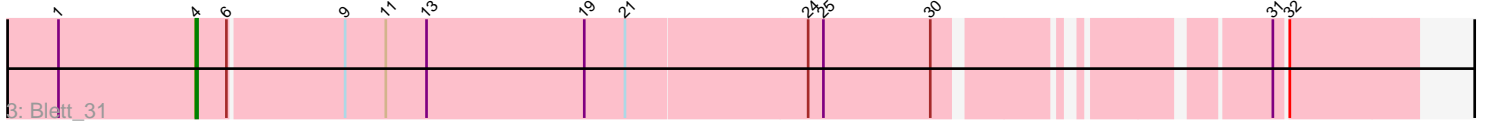


Pham 311967



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 311967 Report

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

Pham number 311967 has 24 members, 10 are drafts.

Phages represented in each track:

- Track 1 : PhillyJawn\_31, Bush\_31, MenE\_31, Dropshot\_30, Losacky\_32, Carrillo\_32
- Track 2 : Jakelyne\_33, NCRodriguez\_32, Antuna\_31, Winchester007\_46, Mariel\_34, Violeta\_32, Appa\_30
- Track 3 : Blett\_31
- Track 4 : Warren\_31
- Track 5 : CookieDog\_31
- Track 6 : ScoobySnack\_29
- Track 7 : Guzman\_32
- Track 8 : Pickles13\_30
- Track 9 : Phonegingi\_30
- Track 10 : Phingu\_33
- Track 11 : Wrackline\_36
- Track 12 : Doedicurus\_29
- Track 13 : Isperia\_28

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

The start number called the most often in the published annotations is 4, it was called in 9 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Blett\_31, Bush\_31, Carrillo\_32, CookieDog\_31, Dropshot\_30, Losacky\_32, MenE\_31, PhillyJawn\_31, Phonegingi\_30, Pickles13\_30, ScoobySnack\_29, Warren\_31,

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

- Antuna\_31, Appa\_30, Guzman\_32, Jakelyne\_33, Mariel\_34, NCRodriguez\_32, Phingu\_33, Violeta\_32, Winchester007\_46,

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

- Doedicurus\_29, Isperia\_28, Wrackline\_36,

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

Start 3:

- Found in 1 of 24 ( 4.2% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Doedicurus\_29 (GJ),

Start 4:

- Found in 21 of 24 ( 87.5% ) of genes in pham
- Manual Annotations of this start: 9 of 14
- Called 57.1% of time when present
- Phage (with cluster) where this start called: Blett\_31 (GA), Bush\_31 (GA), Carrillo\_32 (GA), CookieDog\_31 (GA), Dropshot\_30 (GA), Losacky\_32 (GA), MenE\_31 (GA), PhillyJawn\_31 (GA), Phonegingi\_30 (GA), Pickles13\_30 (GA), ScoobySnack\_29 (GA), Warren\_31 (GA),

Start 6:

- Found in 20 of 24 ( 83.3% ) of genes in pham
- Manual Annotations of this start: 2 of 14
- Called 45.0% of time when present
- Phage (with cluster) where this start called: Antuna\_31 (GA), Appa\_30 (GA), Guzman\_32 (GA), Jakelyne\_33 (GA), Mariel\_34 (GA), NCRodriguez\_32 (GA), Phingui\_33 (GA), Violeta\_32 (GA), Winchester007\_46 (GA),

Start 11:

- Found in 22 of 24 ( 91.7% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 4.5% of time when present
- Phage (with cluster) where this start called: Isperia\_28 (GJ),

Start 15:

- Found in 1 of 24 ( 4.2% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Wrackline\_36 (GF),

**Summary by clusters:**

There are 3 clusters represented in this pham: GF, GJ, GA,

Info for manual annotations of cluster GA:

- Start number 4 was manually annotated 9 times for cluster GA.
- Start number 6 was manually annotated 2 times for cluster GA.

Info for manual annotations of cluster GF:

- Start number 15 was manually annotated 1 time for cluster GF.

Info for manual annotations of cluster GJ:

- Start number 3 was manually annotated 1 time for cluster GJ.
- Start number 11 was manually annotated 1 time for cluster GJ.

**Gene Information:**

Gene: Antuna\_31 Start: 19902, Stop: 20540, Start Num: 6

Candidate Starts for Antuna\_31:

(1, 19803), (Start: 4 @19884 has 9 MA's), (Start: 6 @19902 has 2 MA's), (9, 19968), (Start: 11 @19992 has 1 MA's), (13, 20016), (19, 20109), (21, 20133), (24, 20229), (25, 20238), (30, 20301), (31, 20460), (32, 20466),

Gene: Appa\_30 Start: 19767, Stop: 20414, Start Num: 6

Candidate Starts for Appa\_30:

(1, 19668), (Start: 4 @19749 has 9 MA's), (Start: 6 @19767 has 2 MA's), (9, 19833), (Start: 11 @19857 has 1 MA's), (13, 19881), (19, 19974), (21, 19998), (24, 20103), (25, 20112), (30, 20175), (31, 20334), (32, 20340),

Gene: Blett\_31 Start: 19896, Stop: 20561, Start Num: 4

Candidate Starts for Blett\_31:

(1, 19815), (Start: 4 @19896 has 9 MA's), (Start: 6 @19914 has 2 MA's), (9, 19980), (Start: 11 @20004 has 1 MA's), (13, 20028), (19, 20121), (21, 20145), (24, 20250), (25, 20259), (30, 20322), (31, 20481), (32, 20487),

Gene: Bush\_31 Start: 19874, Stop: 20539, Start Num: 4

Candidate Starts for Bush\_31:

(1, 19793), (Start: 4 @19874 has 9 MA's), (Start: 6 @19892 has 2 MA's), (9, 19958), (Start: 11 @19982 has 1 MA's), (13, 20006), (19, 20099), (21, 20123), (24, 20228), (25, 20237), (30, 20300), (31, 20459), (32, 20465),

Gene: Carrillo\_32 Start: 19853, Stop: 20518, Start Num: 4

Candidate Starts for Carrillo\_32:

(1, 19772), (Start: 4 @19853 has 9 MA's), (Start: 6 @19871 has 2 MA's), (9, 19937), (Start: 11 @19961 has 1 MA's), (13, 19985), (19, 20078), (21, 20102), (24, 20207), (25, 20216), (30, 20279), (31, 20438), (32, 20444),

Gene: CookieDog\_31 Start: 19871, Stop: 20527, Start Num: 4

Candidate Starts for CookieDog\_31:

(1, 19790), (Start: 4 @19871 has 9 MA's), (Start: 6 @19889 has 2 MA's), (9, 19955), (Start: 11 @19979 has 1 MA's), (12, 19985), (13, 20003), (19, 20096), (21, 20120), (24, 20225), (25, 20234), (30, 20297), (31, 20447), (32, 20453),

Gene: Doedicurus\_29 Start: 20189, Stop: 20863, Start Num: 3

Candidate Starts for Doedicurus\_29:

(2, 20180), (Start: 3 @20189 has 1 MA's), (5, 20237), (Start: 11 @20333 has 1 MA's), (16, 20390), (18, 20438), (28, 20591), (32, 20777), (33, 20855),

Gene: Dropshot\_30 Start: 19746, Stop: 20411, Start Num: 4

Candidate Starts for Dropshot\_30:

(1, 19665), (Start: 4 @19746 has 9 MA's), (Start: 6 @19764 has 2 MA's), (9, 19830), (Start: 11 @19854 has 1 MA's), (13, 19878), (19, 19971), (21, 19995), (24, 20100), (25, 20109), (30, 20172), (31, 20331), (32, 20337),

Gene: Guzman\_32 Start: 20173, Stop: 20829, Start Num: 6

Candidate Starts for Guzman\_32:

(1, 20074), (Start: 4 @20155 has 9 MA's), (Start: 6 @20173 has 2 MA's), (9, 20239), (Start: 11 @20263 has 1 MA's), (12, 20269), (13, 20287), (21, 20404), (24, 20509), (25, 20518), (31, 20749), (32, 20755),

Gene: Isperia\_28 Start: 19640, Stop: 20170, Start Num: 11

Candidate Starts for Ispesia\_28:

(Start: 11 @19640 has 1 MA's), (16, 19697), (18, 19745), (28, 19898), (32, 20084), (33, 20162),

Gene: Jakelyne\_33 Start: 19980, Stop: 20627, Start Num: 6

Candidate Starts for Jakelyne\_33:

(1, 19881), (Start: 4 @19962 has 9 MA's), (Start: 6 @19980 has 2 MA's), (9, 20046), (Start: 11 @20070 has 1 MA's), (13, 20094), (19, 20187), (21, 20211), (24, 20316), (25, 20325), (30, 20388), (31, 20547), (32, 20553),

Gene: Losacky\_32 Start: 20026, Stop: 20691, Start Num: 4

Candidate Starts for Losacky\_32:

(1, 19945), (Start: 4 @20026 has 9 MA's), (Start: 6 @20044 has 2 MA's), (9, 20110), (Start: 11 @20134 has 1 MA's), (13, 20158), (19, 20251), (21, 20275), (24, 20380), (25, 20389), (30, 20452), (31, 20611), (32, 20617),

Gene: Mariel\_34 Start: 20321, Stop: 20977, Start Num: 6

Candidate Starts for Mariel\_34:

(1, 20222), (Start: 4 @20303 has 9 MA's), (Start: 6 @20321 has 2 MA's), (9, 20387), (Start: 11 @20411 has 1 MA's), (13, 20435), (19, 20528), (21, 20552), (24, 20657), (25, 20666), (30, 20729), (31, 20897), (32, 20903),

Gene: MenE\_31 Start: 20014, Stop: 20679, Start Num: 4

Candidate Starts for MenE\_31:

(1, 19933), (Start: 4 @20014 has 9 MA's), (Start: 6 @20032 has 2 MA's), (9, 20098), (Start: 11 @20122 has 1 MA's), (13, 20146), (19, 20239), (21, 20263), (24, 20368), (25, 20377), (30, 20440), (31, 20599), (32, 20605),

Gene: NCRodriguez\_32 Start: 20081, Stop: 20728, Start Num: 6

Candidate Starts for NCRodriguez\_32:

(1, 19982), (Start: 4 @20063 has 9 MA's), (Start: 6 @20081 has 2 MA's), (9, 20147), (Start: 11 @20171 has 1 MA's), (13, 20195), (19, 20288), (21, 20312), (24, 20417), (25, 20426), (30, 20489), (31, 20648), (32, 20654),

Gene: PhillyJawn\_31 Start: 19746, Stop: 20411, Start Num: 4

Candidate Starts for PhillyJawn\_31:

(1, 19665), (Start: 4 @19746 has 9 MA's), (Start: 6 @19764 has 2 MA's), (9, 19830), (Start: 11 @19854 has 1 MA's), (13, 19878), (19, 19971), (21, 19995), (24, 20100), (25, 20109), (30, 20172), (31, 20331), (32, 20337),

Gene: Phingu\_33 Start: 19965, Stop: 20621, Start Num: 6

Candidate Starts for Phingu\_33:

(1, 19866), (Start: 4 @19947 has 9 MA's), (Start: 6 @19965 has 2 MA's), (7, 20007), (9, 20031), (Start: 11 @20055 has 1 MA's), (13, 20079), (19, 20172), (21, 20196), (24, 20301), (25, 20310), (30, 20373), (31, 20541), (32, 20547),

Gene: Phonegingi\_30 Start: 19759, Stop: 20433, Start Num: 4

Candidate Starts for Phonegingi\_30:

(1, 19678), (Start: 4 @19759 has 9 MA's), (Start: 6 @19777 has 2 MA's), (7, 19819), (9, 19843), (Start: 11 @19867 has 1 MA's), (13, 19891), (19, 19984), (21, 20008), (24, 20113), (25, 20122), (30, 20176), (31, 20353), (32, 20359),

Gene: Pickles13\_30 Start: 20167, Stop: 20841, Start Num: 4

Candidate Starts for Pickles13\_30:

(1, 20086), (Start: 4 @20167 has 9 MA's), (Start: 6 @20185 has 2 MA's), (7, 20227), (9, 20251), (13, 20299), (14, 20323), (19, 20392), (21, 20416), (24, 20521), (25, 20530), (31, 20761), (32, 20767),

Gene: ScoobySnack\_29 Start: 19888, Stop: 20547, Start Num: 4

Candidate Starts for ScoobySnack\_29:

(1, 19807), (Start: 4 @19888 has 9 MA's), (10, 19981), (Start: 11 @19996 has 1 MA's), (13, 20020), (24, 20227), (27, 20245), (31, 20467), (32, 20473),

Gene: Violeta\_32 Start: 19862, Stop: 20509, Start Num: 6

Candidate Starts for Violeta\_32:

(1, 19763), (Start: 4 @19844 has 9 MA's), (Start: 6 @19862 has 2 MA's), (9, 19928), (Start: 11 @19952 has 1 MA's), (13, 19976), (19, 20069), (21, 20093), (24, 20198), (25, 20207), (30, 20270), (31, 20429), (32, 20435),

Gene: Warren\_31 Start: 19944, Stop: 20609, Start Num: 4

Candidate Starts for Warren\_31:

(1, 19863), (Start: 4 @19944 has 9 MA's), (Start: 6 @19962 has 2 MA's), (9, 20028), (Start: 11 @20052 has 1 MA's), (13, 20076), (17, 20118), (21, 20193), (24, 20298), (30, 20370), (31, 20529), (32, 20535),

Gene: Winchester007\_46 Start: 25882, Stop: 26529, Start Num: 6

Candidate Starts for Winchester007\_46:

(1, 25783), (Start: 4 @25864 has 9 MA's), (Start: 6 @25882 has 2 MA's), (9, 25948), (Start: 11 @25972 has 1 MA's), (13, 25996), (19, 26089), (21, 26113), (24, 26218), (25, 26227), (30, 26290), (31, 26449), (32, 26455),

Gene: Wrackline\_36 Start: 21548, Stop: 22165, Start Num: 15

Candidate Starts for Wrackline\_36:

(8, 21464), (Start: 15 @21548 has 1 MA's), (19, 21611), (20, 21623), (21, 21635), (22, 21656), (23, 21728), (26, 21758), (29, 21803),