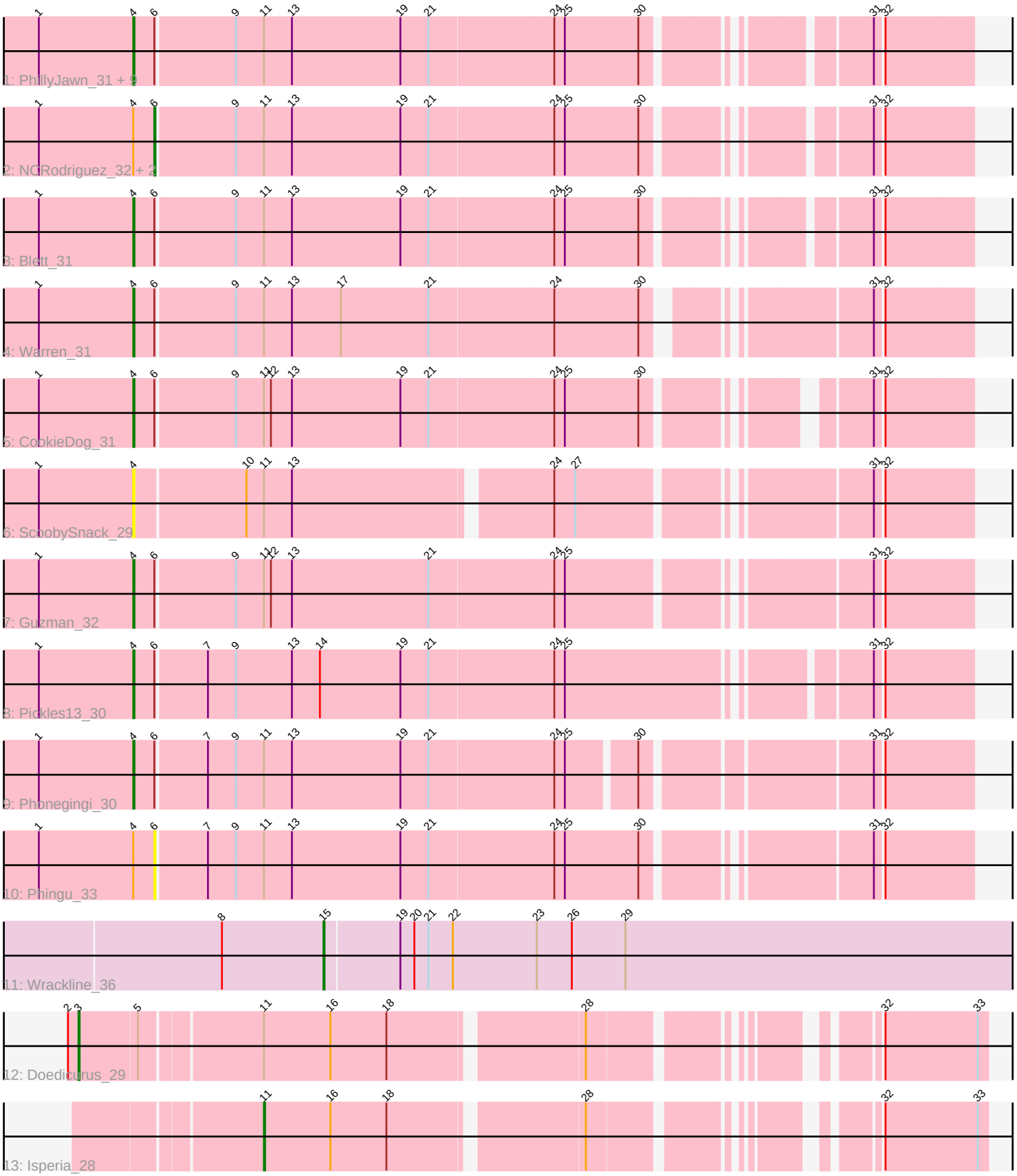
Pham 339993


1: PhillyJawn_31 + 9
2: NCRodriguez_32 + 2
3: Blett_31
4: Warren_31
5: CookieDog_31
6: ScoobySnack_29
7: Guzman_32
8: Pickles13_30
9: Phonegingi_30
10: Phingu_33
11: Wrackline_36
12: Doedicurus_29
13: Isperia_28

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 339993 Report

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

Pham number 339993 has 24 members, 4 are drafts.

Phages represented in each track:
• Track 1 : PhillyJawn_31, Winchester007_32, Jakelyne_32, Bush_31, MenE_31, Dropshot_30, Losacky_32, Mariel_32, Carrillo_32, Violeta_32
• Track 2 : NCRodriguez_32, Antuna_31, 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 15 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Blett_31, Bush_31, Carrillo_32, CookieDog_31, Dropshot_30, Guzman_32, Jakelyne_32, Losacky_32, Mariel_32, MenE_31, PhillyJawn_31, Phonegingi_30, Pickles13_30, ScoobySnack_29, Violeta_32, Warren_31, Winchester007_32,

Genes that have the "Most Annotated" start but do not call it:
• Antuna_31, Appa_30, NCRodriguez_32, Phingu_33,

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 20
• 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: 15 of 20
• Called 81.0% 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), Guzman_32 (GA), Jakelyne_32 (GA), Losacky_32 (GA), Mariel_32 (GA), MenE_31 (GA), PhillyJawn_31 (GA), Phonegingi_30 (GA), Pickles13_30 (GA), ScoobySnack_29 (GA), Violeta_32 (GA), Warren_31 (GA), Winchester007_32 (GA),

Start 6:
• Found in 20 of 24 (83.3%) of genes in pham
• Manual Annotations of this start: 2 of 20
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Antuna_31 (GA), Appa_30 (GA), NCRodriguez_32 (GA), Phingu_33 (GA),

Start 11:
• Found in 22 of 24 (91.7%) of genes in pham
• Manual Annotations of this start: 1 of 20
• 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 20
• 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 15 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 15 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 15 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 15 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 15 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 15 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 15 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 15 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: 20155, Stop: 20829, Start Num: 4
Candidate Starts for Guzman_32:
(1, 20074), (Start: 4 @20155 has 15 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 Isperia_28:
(Start: 11 @19640 has 1 MA's), (16, 19697), (18, 19745), (28, 19898), (32, 20084), (33, 20162),

Gene: Jakelyne_32 Start: 19962, Stop: 20627, Start Num: 4
Candidate Starts for Jakelyne_32:
(1, 19881), (Start: 4 @19962 has 15 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 15 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_32 Start: 20303, Stop: 20977, Start Num: 4
Candidate Starts for Mariel_32:
(1, 20222), (Start: 4 @20303 has 15 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 15 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 15 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 15 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 15 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 15 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 15 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 15 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: 19844, Stop: 20509, Start Num: 4
Candidate Starts for Violeta_32:
(1, 19763), (Start: 4 @19844 has 15 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 15 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_32 Start: 19887, Stop: 20552, Start Num: 4
Candidate Starts for Winchester007_32:
(1, 19806), (Start: 4 @19887 has 15 MA's), (Start: 6 @19905 has 2 MA's), (9, 19971), (Start: 11 @19995 has 1 MA's), (13, 20019), (19, 20112), (21, 20136), (24, 20241), (25, 20250), (30, 20313), (31, 20472), (32, 20478),

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),