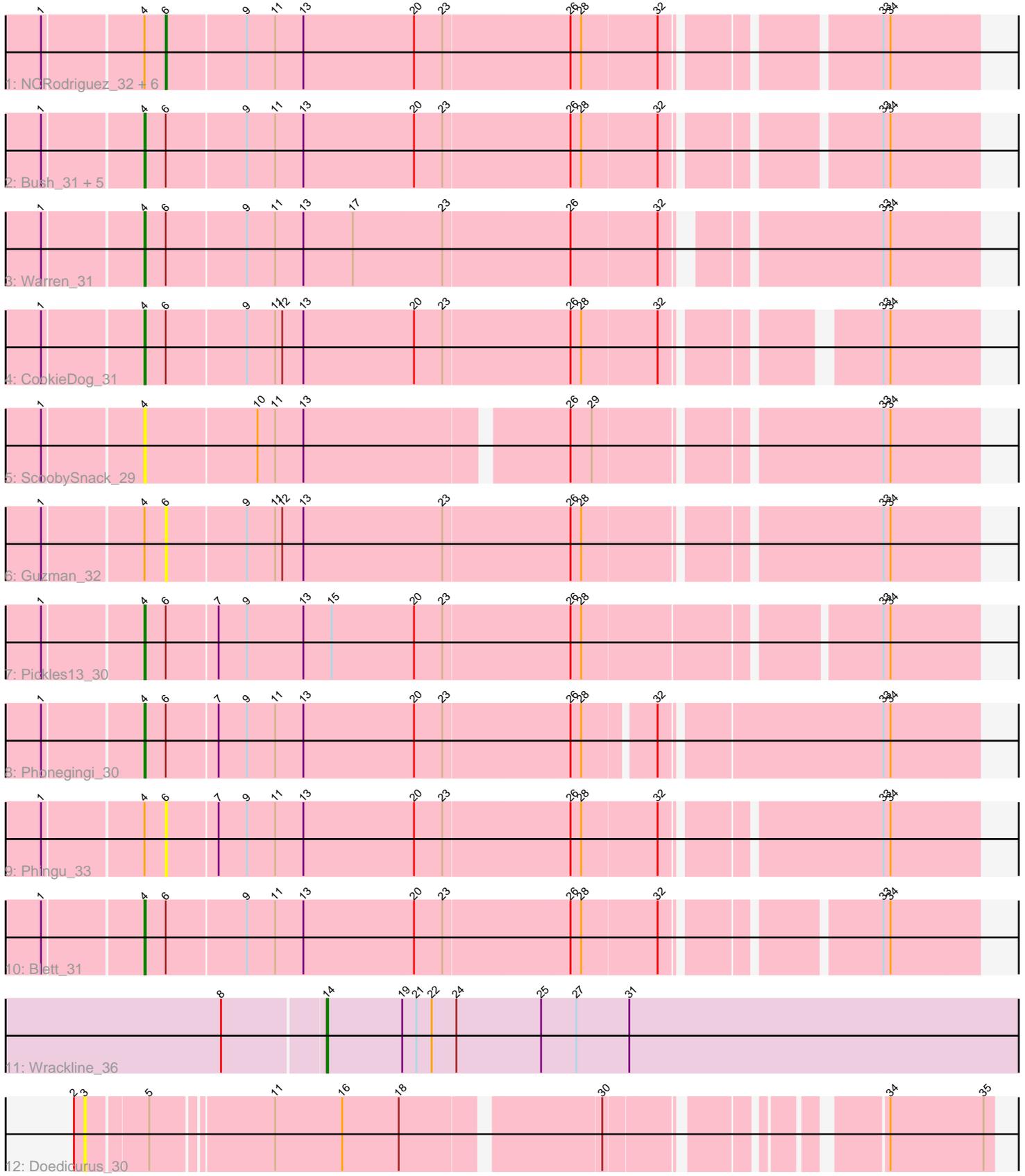# Pham 285881

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 285881 Report

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

Pham number 285881 has 23 members, 11 are drafts.

Phages represented in each track:
• Track 1 : NCRodriguez_32, Jakelyne_33, Violeta_32, Antuna_31, Winchester007_46, Mariel_34, Appa_30
• Track 2 : Bush_31, PhillyJawn_31, MenE_31, Dropshot_30, Carrillo_32, Losacky_32
• Track 3 : Warren_31
• Track 4 : CookieDog_31
• Track 5 : ScoobySnack_29
• Track 6 : Guzman_32
• Track 7 : Pickles13_30
• Track 8 : Phonegingi_30
• Track 9 : Phingu_33
• Track 10 : Blett_31
• Track 11 : Wrackline_36
• Track 12 : Doedicurus_30

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 12 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_30, Wrackline_36,

Summary by start number:

Start 3:

• Found in 1 of 23 (4.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Doedicurus_30 (GJ),

Start 4:
• Found in 21 of 23 (91.3%) of genes in pham
• Manual Annotations of this start: 9 of 12
• 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 23 (87.0%) of genes in pham
• Manual Annotations of this start: 2 of 12
• 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), Phingu_33 (GA), Violeta_32 (GA), Winchester007_46 (GA),

Start 14:
• Found in 1 of 23 (4.3%) of genes in pham
• Manual Annotations of this start: 1 of 12
• 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 14 was manually annotated 1 time for cluster GF.

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), (11, 19992), (13, 20016), (20, 20109), (23, 20133), (26, 20229), (28, 20238), (32, 20301), (33, 20460), (34, 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), (11, 19857), (13, 19881), (20, 19974), (23, 19998), (26, 20103), (28, 20112), (32, 20175), (33, 20334), (34, 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), (11, 20004), (13, 20028), (20, 20121), (23, 20145), (26, 20250), (28, 20259), (32, 20322), (33, 20481), (34, 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), (11, 19982), (13, 20006), (20, 20099), (23, 20123), (26, 20228), (28, 20237), (32, 20300), (33, 20459), (34, 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), (11, 19961), (13, 19985), (20, 20078), (23, 20102), (26, 20207), (28, 20216), (32, 20279), (33, 20438), (34, 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), (11, 19979), (12, 19985), (13, 20003), (20, 20096), (23, 20120), (26, 20225), (28, 20234), (32, 20297), (33, 20447), (34, 20453),

Gene: Doedicurus_30 Start: 20189, Stop: 20863, Start Num: 3
Candidate Starts for Doedicurus_30:
(2, 20180), (3, 20189), (5, 20237), (11, 20333), (16, 20390), (18, 20438), (30, 20591), (34, 20777), (35, 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), (11, 19854), (13, 19878), (20, 19971), (23, 19995), (26, 20100), (28, 20109), (32, 20172), (33, 20331), (34, 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), (11, 20263), (12, 20269), (13, 20287), (23, 20404), (26, 20509), (28, 20518), (33, 20749), (34, 20755),

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), (11, 20070), (13, 20094), (20, 20187), (23, 20211), (26, 20316), (28, 20325), (32, 20388), (33, 20547), (34, 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), (11, 20134), (13, 20158), (20, 20251), (23, 20275), (26, 20380), (28, 20389), (32, 20452), (33, 20611), (34, 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), (11, 20411), (13, 20435), (20, 20528), (23, 20552), (26, 20657), (28, 20666), (32, 20729), (33, 20897), (34, 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), (11, 20122), (13, 20146), (20, 20239), (23, 20263), (26, 20368), (28, 20377), (32, 20440), (33, 20599), (34, 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), (11, 20171), (13, 20195), (20, 20288), (23, 20312), (26, 20417), (28, 20426), (32, 20489), (33, 20648), (34, 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), (11, 19854), (13, 19878), (20, 19971), (23, 19995), (26, 20100), (28, 20109), (32, 20172), (33, 20331), (34, 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), (11, 20055), (13, 20079), (20, 20172), (23, 20196), (26, 20301), (28, 20310), (32, 20373), (33, 20541), (34, 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), (11, 19867), (13, 19891), (20, 19984), (23, 20008), (26, 20113), (28, 20122), (32, 20176), (33, 20353), (34, 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), (15, 20323), (20, 20392), (23, 20416), (26, 20521), (28, 20530), (33, 20761), (34, 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), (11, 19996), (13, 20020), (26, 20227), (29, 20245), (33, 20467), (34, 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), (11, 19952), (13, 19976), (20, 20069), (23, 20093), (26, 20198), (28, 20207), (32, 20270), (33, 20429), (34, 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), (11, 20052), (13, 20076), (17, 20118), (23, 20193), (26, 20298), (32, 20370), (33, 20529), (34, 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), (11, 25972), (13, 25996), (20, 26089), (23, 26113), (26, 26218), (28, 26227), (32, 26290), (33, 26449), (34, 26455),

Gene: Wrackline_36 Start: 21548, Stop: 22165, Start Num: 14
Candidate Starts for Wrackline_36:

(8, 21464), (Start: 14 @21548 has 1 MA's), (19, 21611), (21, 21623), (22, 21635), (24, 21656), (25, 21728), (27, 21758), (31, 21803),