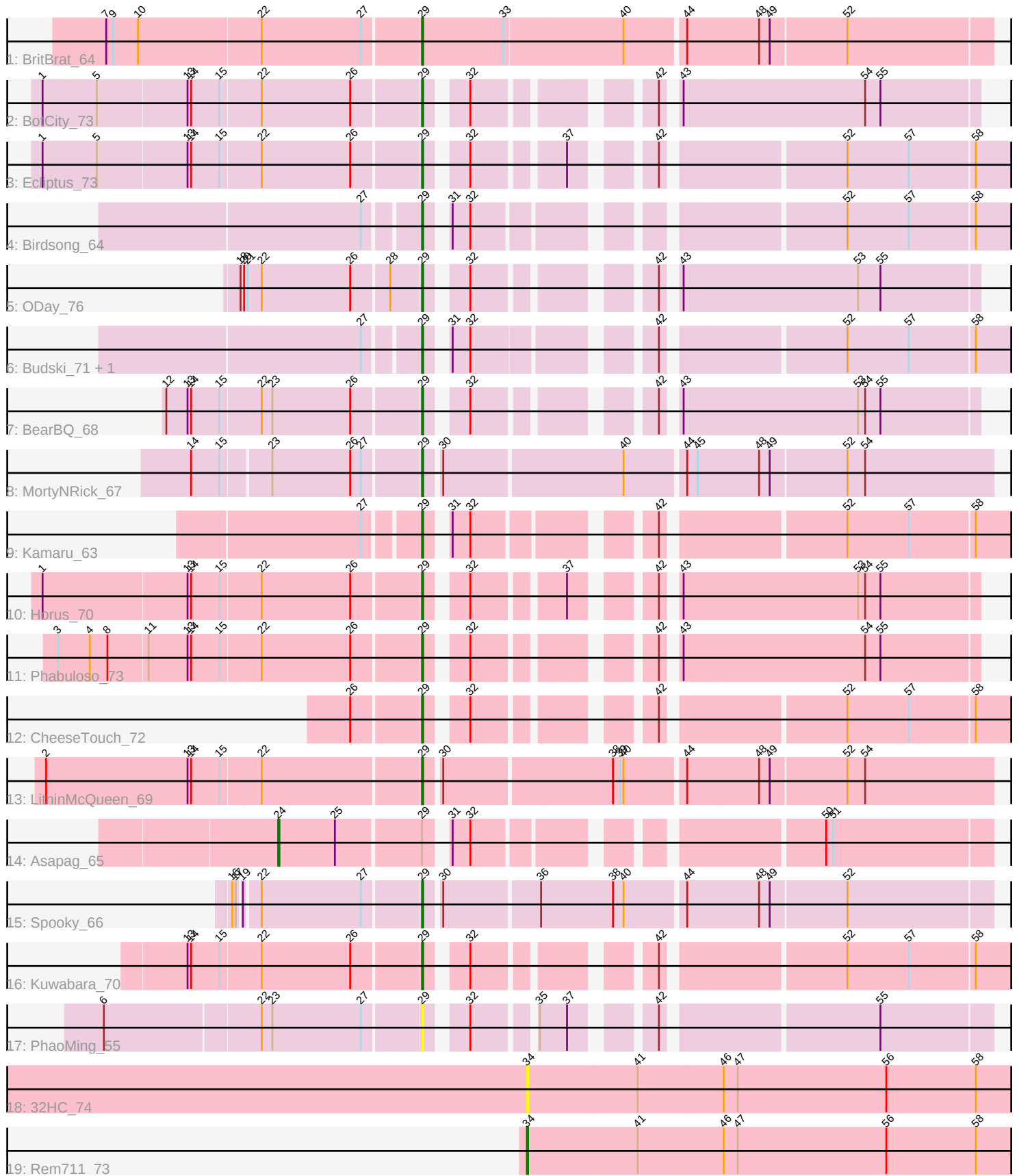


Pham 331255



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 331255 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331255 has 20 members, 2 are drafts.

Phages represented in each track:

- Track 1 : BritBrat_64
- Track 2 : BotCity_73
- Track 3 : Ecliptus_73
- Track 4 : Birdsong_64
- Track 5 : ODay_76
- Track 6 : Budski_71, Whitney_66
- Track 7 : BearBQ_68
- Track 8 : MortyNRick_67
- Track 9 : Kamaru_63
- Track 10 : Horus_70
- Track 11 : Phabuloso_73
- Track 12 : CheeseTouch_72
- Track 13 : LitninMcQueen_69
- Track 14 : Asapag_65
- Track 15 : Spooky_66
- Track 16 : Kuwabara_70
- Track 17 : PhaoMing_55
- Track 18 : 32HC_74
- Track 19 : Rem711_73

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

The start number called the most often in the published annotations is 29, it was called in 16 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BearBQ_68, Birdsong_64, BotCity_73, BritBrat_64, Budski_71, CheeseTouch_72, Ecliptus_73, Horus_70, Kamaru_63, Kuwabara_70, LitninMcQueen_69, MortyNRick_67, ODay_76, Phabuloso_73, PhaoMing_55, Spooky_66, Whitney_66,

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

- Asapag_65,

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

- 32HC_74, Rem711_73,

Summary by start number:

Start 24:

- Found in 1 of 20 (5.0%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Asapag_65 (DN1),

Start 29:

- Found in 18 of 20 (90.0%) of genes in pham
- Manual Annotations of this start: 16 of 18
- Called 94.4% of time when present
- Phage (with cluster) where this start called: BearBQ_68 (DN), Birdsong_64 (DN), BotCity_73 (DN), BritBrat_64 (CY2), Budski_71 (DN), CheeseTouch_72 (DN1), Ecliptus_73 (DN), Horus_70 (DN1), Kamaru_63 (DN1), Kuwabara_70 (DN4), LitninMcQueen_69 (DN1), MortyNRick_67 (DN), ODay_76 (DN), Phabuloso_73 (DN1), PhaoMing_55 (UNK), Spooky_66 (DN2), Whitney_66 (DN1),

Start 34:

- Found in 2 of 20 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 32HC_74 (Z), Rem711_73 (Z),

Summary by clusters:

There are 7 clusters represented in this pham: DN, CY2, UNK, DN4, DN1, DN2, Z,

Info for manual annotations of cluster CY2:

- Start number 29 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster DN:

- Start number 29 was manually annotated 7 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 24 was manually annotated 1 time for cluster DN1.
- Start number 29 was manually annotated 6 times for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 29 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster DN4:

- Start number 29 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster Z:

- Start number 34 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_74 Start: 45244, Stop: 45657, Start Num: 34

Candidate Starts for 32HC_74:

(Start: 34 @45244 has 1 MA's), (41, 45337), (46, 45409), (47, 45421), (56, 45547), (58, 45622),

Gene: Asapag_65 Start: 39896, Stop: 40423, Start Num: 24

Candidate Starts for Asapag_65:

(Start: 24 @39896 has 1 MA's), (25, 39944), (Start: 29 @40013 has 16 MA's), (31, 40025), (32, 40040), (50, 40286), (51, 40292),

Gene: BearBQ_68 Start: 43140, Stop: 43541, Start Num: 29

Candidate Starts for BearBQ_68:

(12, 42933), (13, 42951), (14, 42954), (15, 42978), (22, 43011), (23, 43020), (26, 43086), (Start: 29 @43140 has 16 MA's), (32, 43167), (42, 43287), (43, 43296), (53, 43443), (54, 43449), (55, 43461),

Gene: Birdsong_64 Start: 39677, Stop: 40105, Start Num: 29

Candidate Starts for Birdsong_64:

(27, 39638), (Start: 29 @39677 has 16 MA's), (31, 39689), (32, 39704), (52, 39968), (57, 40019), (58, 40073),

Gene: BotCity_73 Start: 43376, Stop: 43777, Start Num: 29

Candidate Starts for BotCity_73:

(1, 43067), (5, 43112), (13, 43187), (14, 43190), (15, 43214), (22, 43247), (26, 43322), (Start: 29 @43376 has 16 MA's), (32, 43403), (42, 43523), (43, 43532), (54, 43685), (55, 43697),

Gene: BritBrat_64 Start: 42558, Stop: 43025, Start Num: 29

Candidate Starts for BritBrat_64:

(7, 42300), (9, 42306), (10, 42327), (22, 42429), (27, 42513), (Start: 29 @42558 has 16 MA's), (33, 42627), (40, 42726), (44, 42774), (48, 42834), (49, 42843), (52, 42906),

Gene: Budski_71 Start: 41798, Stop: 42229, Start Num: 29

Candidate Starts for Budski_71:

(27, 41759), (Start: 29 @41798 has 16 MA's), (31, 41810), (32, 41825), (42, 41951), (52, 42092), (57, 42143), (58, 42197),

Gene: CheeseTouch_72 Start: 38570, Stop: 38995, Start Num: 29

Candidate Starts for CheeseTouch_72:

(26, 38516), (Start: 29 @38570 has 16 MA's), (32, 38597), (42, 38717), (52, 38858), (57, 38909), (58, 38963),

Gene: Ecliptus_73 Start: 43891, Stop: 44316, Start Num: 29

Candidate Starts for Ecliptus_73:

(1, 43582), (5, 43627), (13, 43702), (14, 43705), (15, 43729), (22, 43762), (26, 43837), (Start: 29 @43891 has 16 MA's), (32, 43918), (37, 43984), (42, 44038), (52, 44179), (57, 44230), (58, 44284),

Gene: Horus_70 Start: 43096, Stop: 43497, Start Num: 29

Candidate Starts for Horus_70:

(1, 42787), (13, 42907), (14, 42910), (15, 42934), (22, 42967), (26, 43042), (Start: 29 @43096 has 16 MA's), (32, 43123), (37, 43189), (42, 43243), (43, 43252), (53, 43399), (54, 43405), (55, 43417),

Gene: Kamaru_63 Start: 39862, Stop: 40290, Start Num: 29

Candidate Starts for Kamaru_63:

(27, 39823), (Start: 29 @39862 has 16 MA's), (31, 39874), (32, 39889), (42, 40012), (52, 40153), (57, 40204), (58, 40258),

Gene: Kuwabara_70 Start: 43219, Stop: 43644, Start Num: 29

Candidate Starts for Kuwabara_70:

(13, 43030), (14, 43033), (15, 43057), (22, 43090), (26, 43165), (Start: 29 @43219 has 16 MA's), (32, 43246), (42, 43366), (52, 43507), (57, 43558), (58, 43612),

Gene: LitninMcQueen_69 Start: 42046, Stop: 42507, Start Num: 29

Candidate Starts for LitninMcQueen_69:

(2, 41737), (13, 41857), (14, 41860), (15, 41884), (22, 41917), (Start: 29 @42046 has 16 MA's), (30, 42058), (38, 42196), (39, 42202), (40, 42205), (44, 42253), (48, 42313), (49, 42322), (52, 42385), (54, 42400),

Gene: MortyNRick_67 Start: 43266, Stop: 43727, Start Num: 29

Candidate Starts for MortyNRick_67:

(14, 43083), (15, 43107), (23, 43146), (26, 43212), (27, 43221), (Start: 29 @43266 has 16 MA's), (30, 43278), (40, 43425), (44, 43473), (45, 43482), (48, 43533), (49, 43542), (52, 43605), (54, 43620),

Gene: ODay_76 Start: 44332, Stop: 44733, Start Num: 29

Candidate Starts for ODay_76:

(18, 44185), (20, 44188), (21, 44191), (22, 44203), (26, 44278), (28, 44308), (Start: 29 @44332 has 16 MA's), (32, 44359), (42, 44479), (43, 44488), (53, 44635), (55, 44653),

Gene: Phabuloso_73 Start: 42594, Stop: 42995, Start Num: 29

Candidate Starts for Phabuloso_73:

(3, 42297), (4, 42324), (8, 42339), (11, 42372), (13, 42405), (14, 42408), (15, 42432), (22, 42465), (26, 42540), (Start: 29 @42594 has 16 MA's), (32, 42621), (42, 42741), (43, 42750), (54, 42903), (55, 42915),

Gene: PhaoMing_55 Start: 38362, Stop: 38769, Start Num: 29

Candidate Starts for PhaoMing_55:

(6, 38104), (22, 38233), (23, 38242), (27, 38317), (Start: 29 @38362 has 16 MA's), (32, 38389), (35, 38434), (37, 38455), (42, 38509), (55, 38677),

Gene: Rem711_73 Start: 45203, Stop: 45616, Start Num: 34

Candidate Starts for Rem711_73:

(Start: 34 @45203 has 1 MA's), (41, 45296), (46, 45368), (47, 45380), (56, 45506), (58, 45581),

Gene: Spooky_66 Start: 41203, Stop: 41661, Start Num: 29

Candidate Starts for Spooky_66:

(16, 41056), (17, 41059), (19, 41062), (22, 41074), (27, 41158), (Start: 29 @41203 has 16 MA's), (30, 41215), (36, 41293), (38, 41353), (40, 41362), (44, 41410), (48, 41470), (49, 41479), (52, 41542),

Gene: Whitney_66 Start: 41711, Stop: 42142, Start Num: 29

Candidate Starts for Whitney_66:

(27, 41672), (Start: 29 @41711 has 16 MA's), (31, 41723), (32, 41738), (42, 41864), (52, 42005), (57, 42056), (58, 42110),