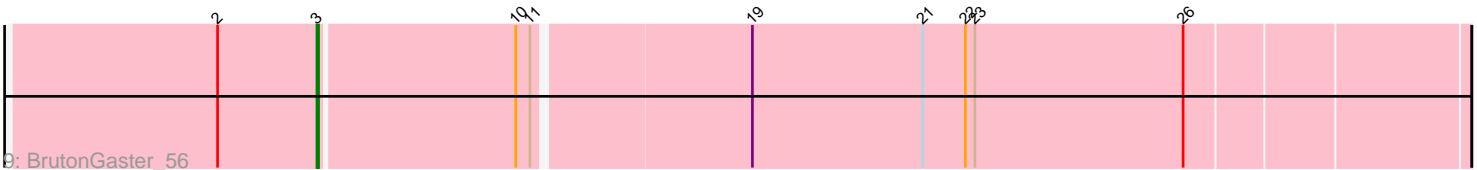
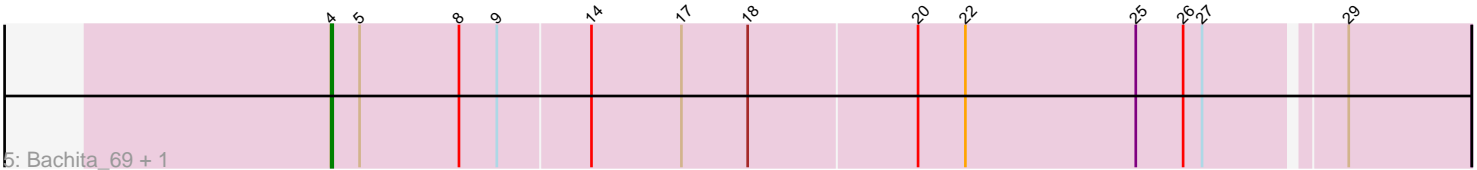
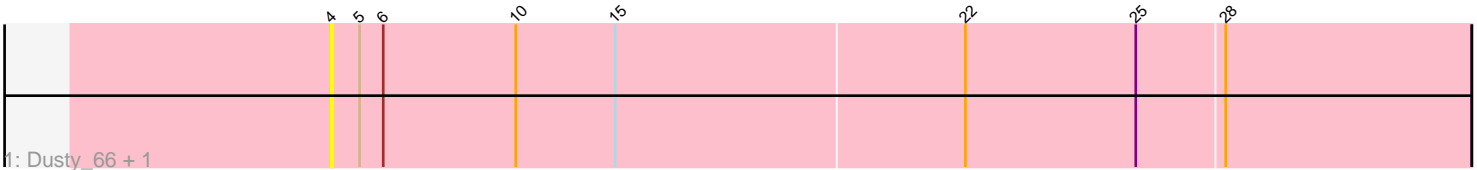


Pham 4631



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 4631 Report

This analysis was run 04/28/24 on database version 559.

Pham number 4631 has 17 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Dusty_66, Abscondus_67
- Track 2 : Miskis_69
- Track 3 : PhinkBoden_67, Norvs_68, Aphelion_67, Toniann_68, Cucurbita_69
- Track 4 : Culver_69, WilliamBoone_67
- Track 5 : Bachita_69, Engineer_69
- Track 6 : Smoothie_69, Lozinak_68
- Track 7 : ClubL_68
- Track 8 : OneUp_60
- Track 9 : BrutonGaster_56

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 12 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_67, Aphelion_67, Bachita_69, ClubL_68, Cucurbita_69, Culver_69, Dusty_66, Engineer_69, Lozinak_68, Miskis_69, Norvs_68, PhinkBoden_67, Smoothie_69, Toniann_68, WilliamBoone_67,

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

-

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

- BrutonGaster_56, OneUp_60,

Summary by start number:

Start 3:

- Found in 2 of 17 (11.8%) of genes in pham
- Manual Annotations of this start: 2 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrutonGaster_56 (CQ2), OneUp_60 (CQ2),

Start 4:

- Found in 15 of 17 (88.2%) of genes in pham
- Manual Annotations of this start: 12 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus_67 (CQ), Aphelion_67 (CQ1), Bachita_69 (CQ1), ClubL_68 (CQ1), Cucurbita_69 (CQ1), Culver_69 (CQ1), Dusty_66 (CQ), Engineer_69 (CQ1), Lozinak_68 (CQ1), Miskis_69 (CQ), Norvs_68 (CQ), PhinkBoden_67 (CQ1), Smoothie_69 (CQ1), Toniann_68 (CQ1), WilliamBoone_67 (CQ1),

Summary by clusters:

There are 3 clusters represented in this pham: CQ2, CQ1, CQ,

Info for manual annotations of cluster CQ:

- Start number 4 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:

- Start number 4 was manually annotated 11 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 3 was manually annotated 2 times for cluster CQ2.

Gene Information:

Gene: Abscondus_67 Start: 43754, Stop: 44470, Start Num: 4

Candidate Starts for Abscondus_67:

(Start: 4 @43754 has 12 MA's), (5, 43772), (6, 43787), (10, 43871), (15, 43934), (22, 44153), (25, 44261), (28, 44315),

Gene: Aphelion_67 Start: 44022, Stop: 44735, Start Num: 4

Candidate Starts for Aphelion_67:

(Start: 4 @44022 has 12 MA's), (5, 44040), (6, 44055), (7, 44064), (9, 44127), (10, 44139), (14, 44184), (15, 44199), (20, 44388), (22, 44418), (25, 44526), (30, 44712),

Gene: Bachita_69 Start: 44456, Stop: 45160, Start Num: 4

Candidate Starts for Bachita_69:

(Start: 4 @44456 has 12 MA's), (5, 44474), (8, 44537), (9, 44561), (14, 44618), (17, 44675), (18, 44717), (20, 44822), (22, 44852), (25, 44960), (26, 44990), (27, 45002), (29, 45083),

Gene: BrutonGaster_56 Start: 41757, Stop: 42458, Start Num: 3

Candidate Starts for BrutonGaster_56:

(2, 41694), (Start: 3 @41757 has 2 MA's), (10, 41877), (11, 41886), (19, 42015), (21, 42123), (22, 42150), (23, 42156), (26, 42288),

Gene: ClubL_68 Start: 43946, Stop: 44662, Start Num: 4

Candidate Starts for ClubL_68:

(1, 43763), (Start: 4 @43946 has 12 MA's), (5, 43964), (12, 44075), (20, 44315), (22, 44345), (25, 44453), (30, 44639),

Gene: Cucurbita_69 Start: 45314, Stop: 46027, Start Num: 4

Candidate Starts for Cucurbita_69:

(Start: 4 @45314 has 12 MA's), (5, 45332), (6, 45347), (7, 45356), (9, 45419), (10, 45431), (14, 45476), (15, 45491), (20, 45680), (22, 45710), (25, 45818), (30, 46004),

Gene: Culver_69 Start: 43628, Stop: 44344, Start Num: 4

Candidate Starts for Culver_69:

(Start: 4 @43628 has 12 MA's), (5, 43646), (12, 43757), (20, 43997), (22, 44027), (25, 44135),

Gene: Dusty_66 Start: 43761, Stop: 44477, Start Num: 4

Candidate Starts for Dusty_66:

(Start: 4 @43761 has 12 MA's), (5, 43779), (6, 43794), (10, 43878), (15, 43941), (22, 44160), (25, 44268), (28, 44322),

Gene: Engineer_69 Start: 44429, Stop: 45133, Start Num: 4

Candidate Starts for Engineer_69:

(Start: 4 @44429 has 12 MA's), (5, 44447), (8, 44510), (9, 44534), (14, 44591), (17, 44648), (18, 44690), (20, 44795), (22, 44825), (25, 44933), (26, 44963), (27, 44975), (29, 45056),

Gene: Lozinak_68 Start: 44255, Stop: 44971, Start Num: 4

Candidate Starts for Lozinak_68:

(1, 44072), (Start: 4 @44255 has 12 MA's), (5, 44273), (12, 44384), (20, 44624), (22, 44654), (25, 44762),

Gene: Miskis_69 Start: 43788, Stop: 44501, Start Num: 4

Candidate Starts for Miskis_69:

(Start: 4 @43788 has 12 MA's), (5, 43806), (6, 43821), (7, 43830), (9, 43893), (10, 43905), (14, 43950), (15, 43965), (22, 44184), (28, 44346),

Gene: Norvs_68 Start: 44027, Stop: 44740, Start Num: 4

Candidate Starts for Norvs_68:

(Start: 4 @44027 has 12 MA's), (5, 44045), (6, 44060), (7, 44069), (9, 44132), (10, 44144), (14, 44189), (15, 44204), (20, 44393), (22, 44423), (25, 44531), (30, 44717),

Gene: OneUp_60 Start: 43454, Stop: 44155, Start Num: 3

Candidate Starts for OneUp_60:

(2, 43391), (Start: 3 @43454 has 2 MA's), (9, 43562), (13, 43595), (16, 43640), (21, 43820), (22, 43847), (23, 43853), (24, 43937), (25, 43955),

Gene: PhinkBoden_67 Start: 44408, Stop: 45121, Start Num: 4

Candidate Starts for PhinkBoden_67:

(Start: 4 @44408 has 12 MA's), (5, 44426), (6, 44441), (7, 44450), (9, 44513), (10, 44525), (14, 44570), (15, 44585), (20, 44774), (22, 44804), (25, 44912), (30, 45098),

Gene: Smoothie_69 Start: 44255, Stop: 44971, Start Num: 4

Candidate Starts for Smoothie_69:

(1, 44072), (Start: 4 @44255 has 12 MA's), (5, 44273), (12, 44384), (20, 44624), (22, 44654), (25, 44762),

Gene: Toniann_68 Start: 43970, Stop: 44683, Start Num: 4

Candidate Starts for Toniann_68:

(Start: 4 @43970 has 12 MA's), (5, 43988), (6, 44003), (7, 44012), (9, 44075), (10, 44087), (14, 44132), (15, 44147), (20, 44336), (22, 44366), (25, 44474), (30, 44660),

Gene: WilliamBoone_67 Start: 42925, Stop: 43641, Start Num: 4

Candidate Starts for WilliamBoone_67:

(Start: 4 @42925 has 12 MA's), (5, 42943), (12, 43054), (20, 43294), (22, 43324), (25, 43432),