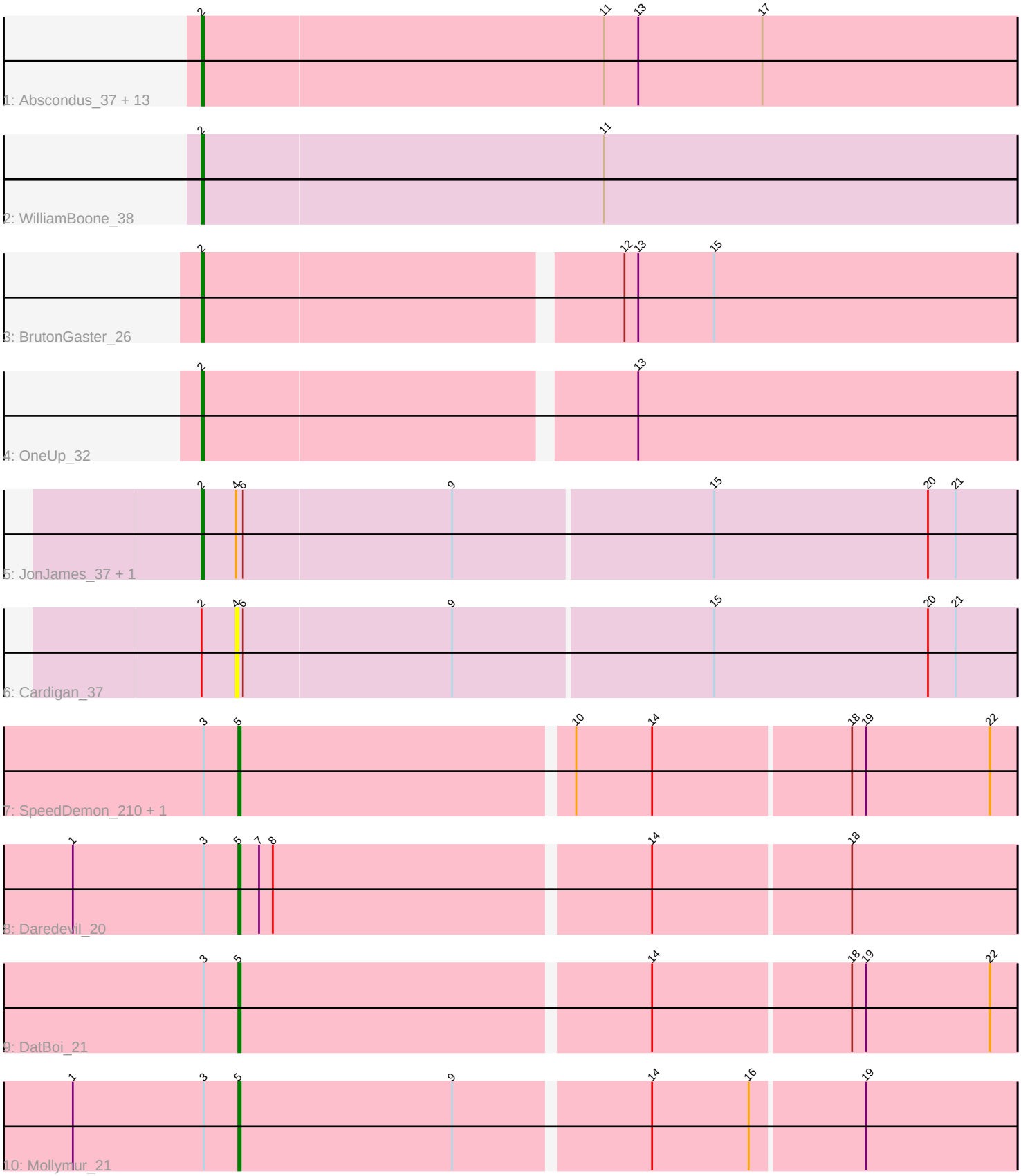
Pham 86608


1: Abscondus_37 + 13
2: WilliamBoone_38
3: BrutonGaster_26
4: OneUp_32
5: JonJames_37 + 1
6: Cardigan_37
7: SpeedDemon_210 + 1
8: Daredevil_20
9: DatBoi_21
10: Mollymur_21

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 86608 Report

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

Pham number 86608 has 25 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Abscondus_37, ClubL_38, Aphelion_38, Toniann_38, Bachita_40, Norvs_39, Smoothie_39, Dusty_36, Culver_38, Lozinak_38, Miskis_40, PhinkBoden_38, Cucurbita_40, Engineer_39
• Track 2 : WilliamBoone_38
• Track 3 : BrutonGaster_26
• Track 4 : OneUp_32
• Track 5 : JonJames_37, Yvonnetastic_35
• Track 6 : Cardigan_37
• Track 7 : SpeedDemon_210, Bantam_20
• Track 8 : Daredevil_20
• Track 9 : DatBoi_21
• Track 10 : Mollymur_21

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

The start number called the most often in the published annotations is 2, it was called in 16 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abscondus_37, Aphelion_38, Bachita_40, BrutonGaster_26, ClubL_38, Cucurbita_40, Culver_38, Dusty_36, Engineer_39, JonJames_37, Lozinak_38, Miskis_40, Norvs_39, OneUp_32, PhinkBoden_38, Smoothie_39, Toniann_38, WilliamBoone_38, Yvonnetastic_35,

Genes that have the "Most Annotated" start but do not call it:
• Cardigan_37,

Genes that do not have the "Most Annotated" start:
• Bantam_20, Daredevil_20, DatBoi_21, Mollymur_21, SpeedDemon_210,

Summary by start number:

Start 2:
• Found in 20 of 25 (80.0%) of genes in pham

• Manual Annotations of this start: 16 of 21
• Called 95.0% of time when present
• Phage (with cluster) where this start called: Abscondus_37 (CQ), Aphelion_38 (CQ1), Bachita_40 (CQ1), BrutonGaster_26 (CQ2), ClubL_38 (CQ1), Cucurbita_40 (CQ1), Culver_38 (CQ1), Dusty_36 (CQ), Engineer_39 (CQ1), JonJames_37 (DD), Lozinak_38 (CQ1), Miskis_40 (CQ), Norvs_39 (CQ), OneUp_32 (CQ2), PhinkBoden_38 (CQ1), Smoothie_39 (CQ1), Toniann_38 (CQ1), WilliamBoone_38 (CQ1), Yvonnetastic_35 (DD),

Start 4:
• Found in 3 of 25 (12.0%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Cardigan_37 (DD),

Start 5:
• Found in 5 of 25 (20.0%) of genes in pham
• Manual Annotations of this start: 5 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bantam_20 (DL), Daredevil_20 (DL), DatBoi_21 (DL), Mollymur_21 (DL), SpeedDemon_210 (DL),

Summary by clusters:

There are 5 clusters represented in this pham: CQ2, DL, CQ1, CQ, DD,

Info for manual annotations of cluster CQ:
•Start number 2 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:
•Start number 2 was manually annotated 11 times for cluster CQ1.

Info for manual annotations of cluster CQ2:
•Start number 2 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster DD:
•Start number 2 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DL:
•Start number 5 was manually annotated 5 times for cluster DL.

Gene Information:

Gene: Abscondus_37 Start: 15874, Stop: 16227, Start Num: 2
Candidate Starts for Abscondus_37:
(Start: 2 @15874 has 16 MA's), (11, 16048), (13, 16063), (17, 16117),

Gene: Aphelion_38 Start: 16143, Stop: 16496, Start Num: 2
Candidate Starts for Aphelion_38:
(Start: 2 @16143 has 16 MA's), (11, 16317), (13, 16332), (17, 16386),

Gene: Bachita_40 Start: 16576, Stop: 16929, Start Num: 2
Candidate Starts for Bachita_40:
(Start: 2 @16576 has 16 MA's), (11, 16750), (13, 16765), (17, 16819),

Gene: Bantam_20 Start: 13628, Stop: 13957, Start Num: 5
Candidate Starts for Bantam_20:
(3, 13613), (Start: 5 @13628 has 5 MA's), (10, 13769), (14, 13802), (18, 13886), (19, 13892), (22, 13946),

Gene: BrutonGaster_26 Start: 12775, Stop: 13119, Start Num: 2
Candidate Starts for BrutonGaster_26:
(Start: 2 @12775 has 16 MA's), (12, 12949), (13, 12955), (15, 12988),

Gene: Cardigan_37 Start: 17787, Stop: 18122, Start Num: 4
Candidate Starts for Cardigan_37:
(Start: 2 @17772 has 16 MA's), (4, 17787), (6, 17790), (9, 17880), (15, 17991), (20, 18084), (21, 18096),

Gene: ClubL_38 Start: 16065, Stop: 16418, Start Num: 2
Candidate Starts for ClubL_38:
(Start: 2 @16065 has 16 MA's), (11, 16239), (13, 16254), (17, 16308),

Gene: Cucurbita_40 Start: 17435, Stop: 17788, Start Num: 2
Candidate Starts for Cucurbita_40:
(Start: 2 @17435 has 16 MA's), (11, 17609), (13, 17624), (17, 17678),

Gene: Culver_38 Start: 15874, Stop: 16227, Start Num: 2
Candidate Starts for Culver_38:
(Start: 2 @15874 has 16 MA's), (11, 16048), (13, 16063), (17, 16117),

Gene: Daredevil_20 Start: 12467, Stop: 12796, Start Num: 5
Candidate Starts for Daredevil_20:
(1, 12395), (3, 12452), (Start: 5 @12467 has 5 MA's), (7, 12476), (8, 12482), (14, 12641), (18, 12725),

Gene: DatBoi_21 Start: 14419, Stop: 14748, Start Num: 5
Candidate Starts for DatBoi_21:
(3, 14404), (Start: 5 @14419 has 5 MA's), (14, 14593), (18, 14677), (19, 14683), (22, 14737),

Gene: Dusty_36 Start: 15874, Stop: 16227, Start Num: 2
Candidate Starts for Dusty_36:
(Start: 2 @15874 has 16 MA's), (11, 16048), (13, 16063), (17, 16117),

Gene: Engineer_39 Start: 16091, Stop: 16444, Start Num: 2
Candidate Starts for Engineer_39:
(Start: 2 @16091 has 16 MA's), (11, 16265), (13, 16280), (17, 16334),

Gene: JonJames_37 Start: 19987, Stop: 20337, Start Num: 2
Candidate Starts for JonJames_37:
(Start: 2 @19987 has 16 MA's), (4, 20002), (6, 20005), (9, 20095), (15, 20206), (20, 20299), (21, 20311),

Gene: Lozinak_38 Start: 16146, Stop: 16499, Start Num: 2
Candidate Starts for Lozinak_38:

(Start: 2 @16146 has 16 MA's), (11, 16320), (13, 16335), (17, 16389),

Gene: Miskis_40 Start: 15909, Stop: 16262, Start Num: 2
Candidate Starts for Miskis_40:
(Start: 2 @15909 has 16 MA's), (11, 16083), (13, 16098), (17, 16152),

Gene: Mollymur_21 Start: 14469, Stop: 14798, Start Num: 5
Candidate Starts for Mollymur_21:
(1, 14397), (3, 14454), (Start: 5 @14469 has 5 MA's), (9, 14562), (14, 14643), (16, 14685), (19, 14733),

Gene: Norvs_39 Start: 16148, Stop: 16501, Start Num: 2
Candidate Starts for Norvs_39:
(Start: 2 @16148 has 16 MA's), (11, 16322), (13, 16337), (17, 16391),

Gene: OneUp_32 Start: 13864, Stop: 14208, Start Num: 2
Candidate Starts for OneUp_32:
(Start: 2 @13864 has 16 MA's), (13, 14044),

Gene: PhinkBoden_38 Start: 16529, Stop: 16882, Start Num: 2
Candidate Starts for PhinkBoden_38:
(Start: 2 @16529 has 16 MA's), (11, 16703), (13, 16718), (17, 16772),

Gene: Smoothie_39 Start: 16146, Stop: 16499, Start Num: 2
Candidate Starts for Smoothie_39:
(Start: 2 @16146 has 16 MA's), (11, 16320), (13, 16335), (17, 16389),

Gene: SpeedDemon_210 Start: 13944, Stop: 14273, Start Num: 5
Candidate Starts for SpeedDemon_210:
(3, 13929), (Start: 5 @13944 has 5 MA's), (10, 14085), (14, 14118), (18, 14202), (19, 14208), (22, 14262),

Gene: Toniann_38 Start: 16091, Stop: 16444, Start Num: 2
Candidate Starts for Toniann_38:
(Start: 2 @16091 has 16 MA's), (11, 16265), (13, 16280), (17, 16334),

Gene: WilliamBoone_38 Start: 15455, Stop: 15808, Start Num: 2
Candidate Starts for WilliamBoone_38:
(Start: 2 @15455 has 16 MA's), (11, 15629),

Gene: Yvonnetastic_35 Start: 17536, Stop: 17886, Start Num: 2
Candidate Starts for Yvonnetastic_35:
(Start: 2 @17536 has 16 MA's), (4, 17551), (6, 17554), (9, 17644), (15, 17755), (20, 17848), (21, 17860),