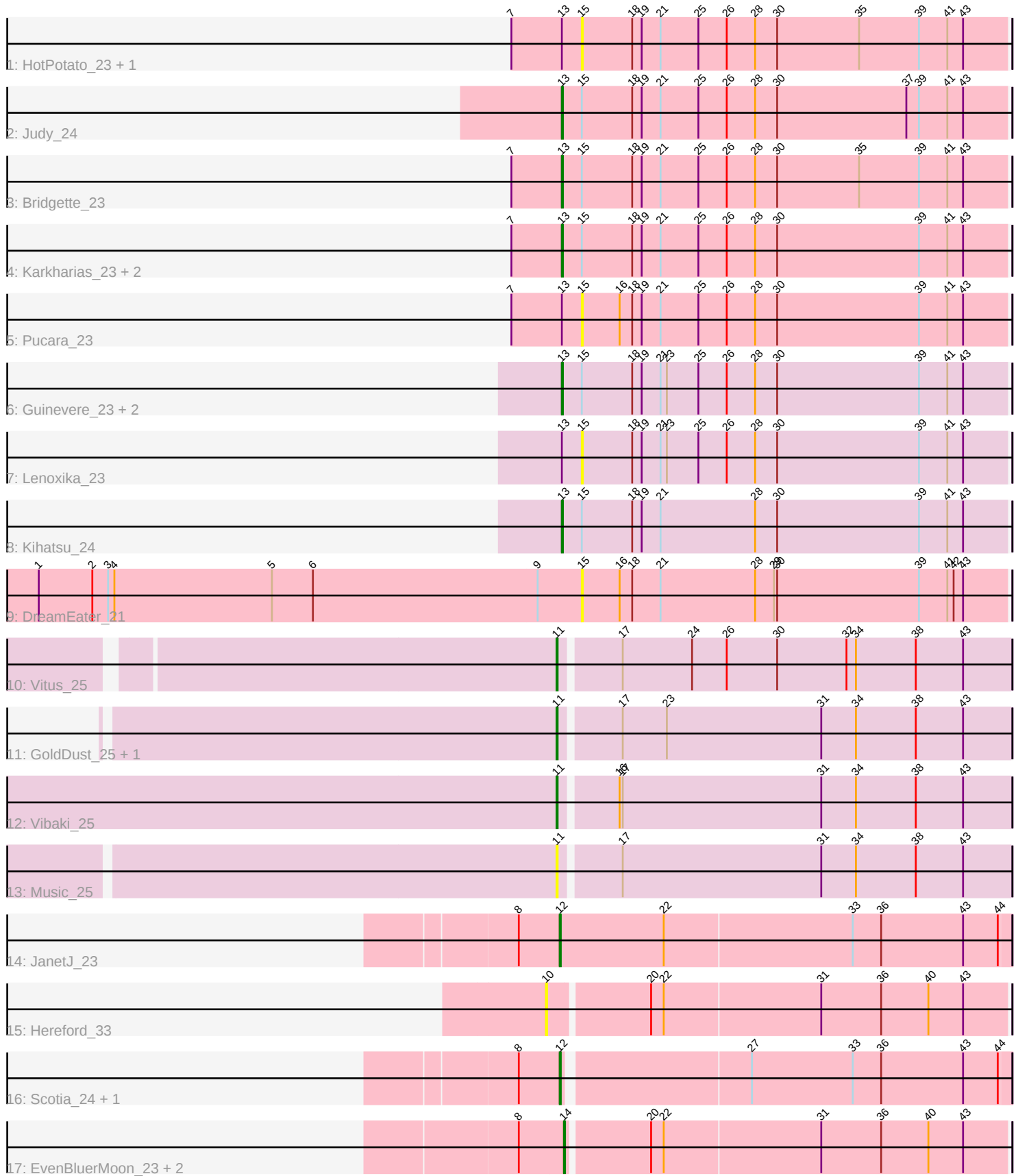


Pham 272019



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 272019 Report

This analysis was run 02/07/26 on database version 634.

Pham number 272019 has 26 members, 8 are drafts.

Phages represented in each track:

- Track 1 : HotPotato_23, LilyBell_23
- Track 2 : Judy_24
- Track 3 : Bridgette_23
- Track 4 : Karkharias_23, Peas_23, Eileen_23
- Track 5 : Pucara_23
- Track 6 : Guinevere_23, Nandita_23, Schism_23
- Track 7 : Lenoxika_23
- Track 8 : Kihatsu_24
- Track 9 : DreamEater_21
- Track 10 : Vitus_25
- Track 11 : GoldDust_25, Gooberta_25
- Track 12 : Vibaki_25
- Track 13 : Music_25
- Track 14 : JanetJ_23
- Track 15 : Hereford_33
- Track 16 : Scotia_24, NoSwimming_24
- Track 17 : EvenBluerMoon_23, Aoka_23, PrairieDogTown_23

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

The start number called the most often in the published annotations is 13, it was called in 9 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bridgette_23, Eileen_23, Guinevere_23, Judy_24, Karkharias_23, Kihatsu_24, Nandita_23, Peas_23, Schism_23,

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

- HotPotato_23, Lenoxika_23, LilyBell_23, Pucara_23,

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

- Aoka_23, DreamEater_21, EvenBluerMoon_23, GoldDust_25, Gooberta_25, Hereford_33, JanetJ_23, Music_25, NoSwimming_24, PrairieDogTown_23, Scotia_24, Vibaki_25, Vitus_25,

Summary by start number:

Start 10:

- Found in 1 of 26 (3.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hereford_33 (FO),

Start 11:

- Found in 5 of 26 (19.2%) of genes in pham
- Manual Annotations of this start: 3 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GoldDust_25 (FL), Gooberta_25 (FL), Music_25 (FL), Vibaki_25 (FL), Vitus_25 (FL),

Start 12:

- Found in 3 of 26 (11.5%) of genes in pham
- Manual Annotations of this start: 3 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JanetJ_23 (FO), NoSwimming_24 (FO), Scotia_24 (FO),

Start 13:

- Found in 13 of 26 (50.0%) of genes in pham
- Manual Annotations of this start: 9 of 18
- Called 69.2% of time when present
- Phage (with cluster) where this start called: Bridgette_23 (FA), Eileen_23 (FA), Guinevere_23 (FF), Judy_24 (FA), Karkharias_23 (FA), Kihatsu_24 (FF), Nandita_23 (FF), Peas_23 (FA), Schism_23 (FF),

Start 14:

- Found in 3 of 26 (11.5%) of genes in pham
- Manual Annotations of this start: 3 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aoka_23 (FO), EvenBluerMoon_23 (FO), PrairieDogTown_23 (FO),

Start 15:

- Found in 14 of 26 (53.8%) of genes in pham
- No Manual Annotations of this start.
- Called 35.7% of time when present
- Phage (with cluster) where this start called: DreamEater_21 (FJ), HotPotato_23 (FA), Lenoxika_23 (FF), LilyBell_23 (FA), Pucara_23 (FA),

Summary by clusters:

There are 5 clusters represented in this pham: FA, FJ, FL, FF, FO,

Info for manual annotations of cluster FA:

- Start number 13 was manually annotated 5 times for cluster FA.

Info for manual annotations of cluster FF:

- Start number 13 was manually annotated 4 times for cluster FF.

Info for manual annotations of cluster FL:

- Start number 11 was manually annotated 3 times for cluster FL.

Info for manual annotations of cluster FO:

- Start number 12 was manually annotated 3 times for cluster FO.
- Start number 14 was manually annotated 3 times for cluster FO.

Gene Information:

Gene: Aoka_23 Start: 21429, Stop: 21839, Start Num: 14

Candidate Starts for Aoka_23:

(8, 21387), (Start: 14 @21429 has 3 MA's), (20, 21504), (22, 21516), (31, 21663), (36, 21720), (40, 21765), (43, 21798),

Gene: Bridgette_23 Start: 18606, Stop: 19028, Start Num: 13

Candidate Starts for Bridgette_23:

(7, 18558), (Start: 13 @18606 has 9 MA's), (15, 18624), (18, 18672), (19, 18681), (21, 18699), (25, 18735), (26, 18762), (28, 18789), (30, 18810), (35, 18888), (39, 18945), (41, 18972), (43, 18987),

Gene: DreamEater_21 Start: 17452, Stop: 17856, Start Num: 15

Candidate Starts for DreamEater_21:

(1, 16936), (2, 16987), (3, 17002), (4, 17008), (5, 17158), (6, 17197), (9, 17410), (15, 17452), (16, 17488), (18, 17500), (21, 17527), (28, 17617), (29, 17635), (30, 17638), (39, 17773), (41, 17800), (42, 17806), (43, 17815),

Gene: Eileen_23 Start: 18544, Stop: 18966, Start Num: 13

Candidate Starts for Eileen_23:

(7, 18496), (Start: 13 @18544 has 9 MA's), (15, 18562), (18, 18610), (19, 18619), (21, 18637), (25, 18673), (26, 18700), (28, 18727), (30, 18748), (39, 18883), (41, 18910), (43, 18925),

Gene: EvenBluerMoon_23 Start: 21464, Stop: 21874, Start Num: 14

Candidate Starts for EvenBluerMoon_23:

(8, 21422), (Start: 14 @21464 has 3 MA's), (20, 21539), (22, 21551), (31, 21698), (36, 21755), (40, 21800), (43, 21833),

Gene: GoldDust_25 Start: 24683, Stop: 25105, Start Num: 11

Candidate Starts for GoldDust_25:

(Start: 11 @24683 has 3 MA's), (17, 24737), (23, 24779), (31, 24926), (34, 24959), (38, 25016), (43, 25061),

Gene: Gooberta_25 Start: 24682, Stop: 25104, Start Num: 11

Candidate Starts for Gooberta_25:

(Start: 11 @24682 has 3 MA's), (17, 24736), (23, 24778), (31, 24925), (34, 24958), (38, 25015), (43, 25060),

Gene: Guinevere_23 Start: 17798, Stop: 18220, Start Num: 13

Candidate Starts for Guinevere_23:

(Start: 13 @17798 has 9 MA's), (15, 17816), (18, 17864), (19, 17873), (21, 17891), (23, 17897), (25, 17927), (26, 17954), (28, 17981), (30, 18002), (39, 18137), (41, 18164), (43, 18179),

Gene: Hereford_33 Start: 21283, Stop: 21708, Start Num: 10

Candidate Starts for Hereford_33:

(10, 21283), (20, 21373), (22, 21385), (31, 21532), (36, 21589), (40, 21634), (43, 21667),

Gene: HotPotato_23 Start: 18568, Stop: 18972, Start Num: 15

Candidate Starts for HotPotato_23:

(7, 18502), (Start: 13 @18550 has 9 MA's), (15, 18568), (18, 18616), (19, 18625), (21, 18643), (25, 18679), (26, 18706), (28, 18733), (30, 18754), (35, 18832), (39, 18889), (41, 18916), (43, 18931),

Gene: JanetJ_23 Start: 21553, Stop: 21978, Start Num: 12

Candidate Starts for JanetJ_23:

(8, 21514), (Start: 12 @21553 has 3 MA's), (22, 21652), (33, 21829), (36, 21856), (43, 21934), (44, 21967),

Gene: Judy_24 Start: 18856, Stop: 19278, Start Num: 13

Candidate Starts for Judy_24:

(Start: 13 @18856 has 9 MA's), (15, 18874), (18, 18922), (19, 18931), (21, 18949), (25, 18985), (26, 19012), (28, 19039), (30, 19060), (37, 19183), (39, 19195), (41, 19222), (43, 19237),

Gene: Karkharias_23 Start: 18546, Stop: 18968, Start Num: 13

Candidate Starts for Karkharias_23:

(7, 18498), (Start: 13 @18546 has 9 MA's), (15, 18564), (18, 18612), (19, 18621), (21, 18639), (25, 18675), (26, 18702), (28, 18729), (30, 18750), (39, 18885), (41, 18912), (43, 18927),

Gene: Kihatsu_24 Start: 18123, Stop: 18545, Start Num: 13

Candidate Starts for Kihatsu_24:

(Start: 13 @18123 has 9 MA's), (15, 18141), (18, 18189), (19, 18198), (21, 18216), (28, 18306), (30, 18327), (39, 18462), (41, 18489), (43, 18504),

Gene: Lenoxika_23 Start: 17812, Stop: 18216, Start Num: 15

Candidate Starts for Lenoxika_23:

(Start: 13 @17794 has 9 MA's), (15, 17812), (18, 17860), (19, 17869), (21, 17887), (23, 17893), (25, 17923), (26, 17950), (28, 17977), (30, 17998), (39, 18133), (41, 18160), (43, 18175),

Gene: LilyBell_23 Start: 18580, Stop: 18984, Start Num: 15

Candidate Starts for LilyBell_23:

(7, 18514), (Start: 13 @18562 has 9 MA's), (15, 18580), (18, 18628), (19, 18637), (21, 18655), (25, 18691), (26, 18718), (28, 18745), (30, 18766), (35, 18844), (39, 18901), (41, 18928), (43, 18943),

Gene: Music_25 Start: 24533, Stop: 24955, Start Num: 11

Candidate Starts for Music_25:

(Start: 11 @24533 has 3 MA's), (17, 24587), (31, 24776), (34, 24809), (38, 24866), (43, 24911),

Gene: Nandita_23 Start: 17798, Stop: 18220, Start Num: 13

Candidate Starts for Nandita_23:

(Start: 13 @17798 has 9 MA's), (15, 17816), (18, 17864), (19, 17873), (21, 17891), (23, 17897), (25, 17927), (26, 17954), (28, 17981), (30, 18002), (39, 18137), (41, 18164), (43, 18179),

Gene: NoSwimming_24 Start: 22702, Stop: 23115, Start Num: 12

Candidate Starts for NoSwimming_24:

(8, 22663), (Start: 12 @22702 has 3 MA's), (27, 22870), (33, 22966), (36, 22993), (43, 23071), (44, 23104),

Gene: Peas_23 Start: 18544, Stop: 18966, Start Num: 13

Candidate Starts for Peas_23:

(7, 18496), (Start: 13 @18544 has 9 MA's), (15, 18562), (18, 18610), (19, 18619), (21, 18637), (25, 18673), (26, 18700), (28, 18727), (30, 18748), (39, 18883), (41, 18910), (43, 18925),

Gene: PrairieDogTown_23 Start: 21466, Stop: 21876, Start Num: 14

Candidate Starts for PrairieDogTown_23:

(8, 21424), (Start: 14 @21466 has 3 MA's), (20, 21541), (22, 21553), (31, 21700), (36, 21757), (40, 21802), (43, 21835),

Gene: Pucara_23 Start: 18561, Stop: 18965, Start Num: 15

Candidate Starts for Pucara_23:

(7, 18495), (Start: 13 @18543 has 9 MA's), (15, 18561), (16, 18597), (18, 18609), (19, 18618), (21, 18636), (25, 18672), (26, 18699), (28, 18726), (30, 18747), (39, 18882), (41, 18909), (43, 18924),

Gene: Schism_23 Start: 17798, Stop: 18220, Start Num: 13

Candidate Starts for Schism_23:

(Start: 13 @17798 has 9 MA's), (15, 17816), (18, 17864), (19, 17873), (21, 17891), (23, 17897), (25, 17927), (26, 17954), (28, 17981), (30, 18002), (39, 18137), (41, 18164), (43, 18179),

Gene: Scotia_24 Start: 22705, Stop: 23118, Start Num: 12

Candidate Starts for Scotia_24:

(8, 22666), (Start: 12 @22705 has 3 MA's), (27, 22873), (33, 22969), (36, 22996), (43, 23074), (44, 23107),

Gene: Vibaki_25 Start: 24558, Stop: 24980, Start Num: 11

Candidate Starts for Vibaki_25:

(Start: 11 @24558 has 3 MA's), (16, 24609), (17, 24612), (31, 24801), (34, 24834), (38, 24891), (43, 24936),

Gene: Vitus_25 Start: 21345, Stop: 21767, Start Num: 11

Candidate Starts for Vitus_25:

(Start: 11 @21345 has 3 MA's), (17, 21399), (24, 21465), (26, 21498), (30, 21546), (32, 21612), (34, 21621), (38, 21678), (43, 21723),