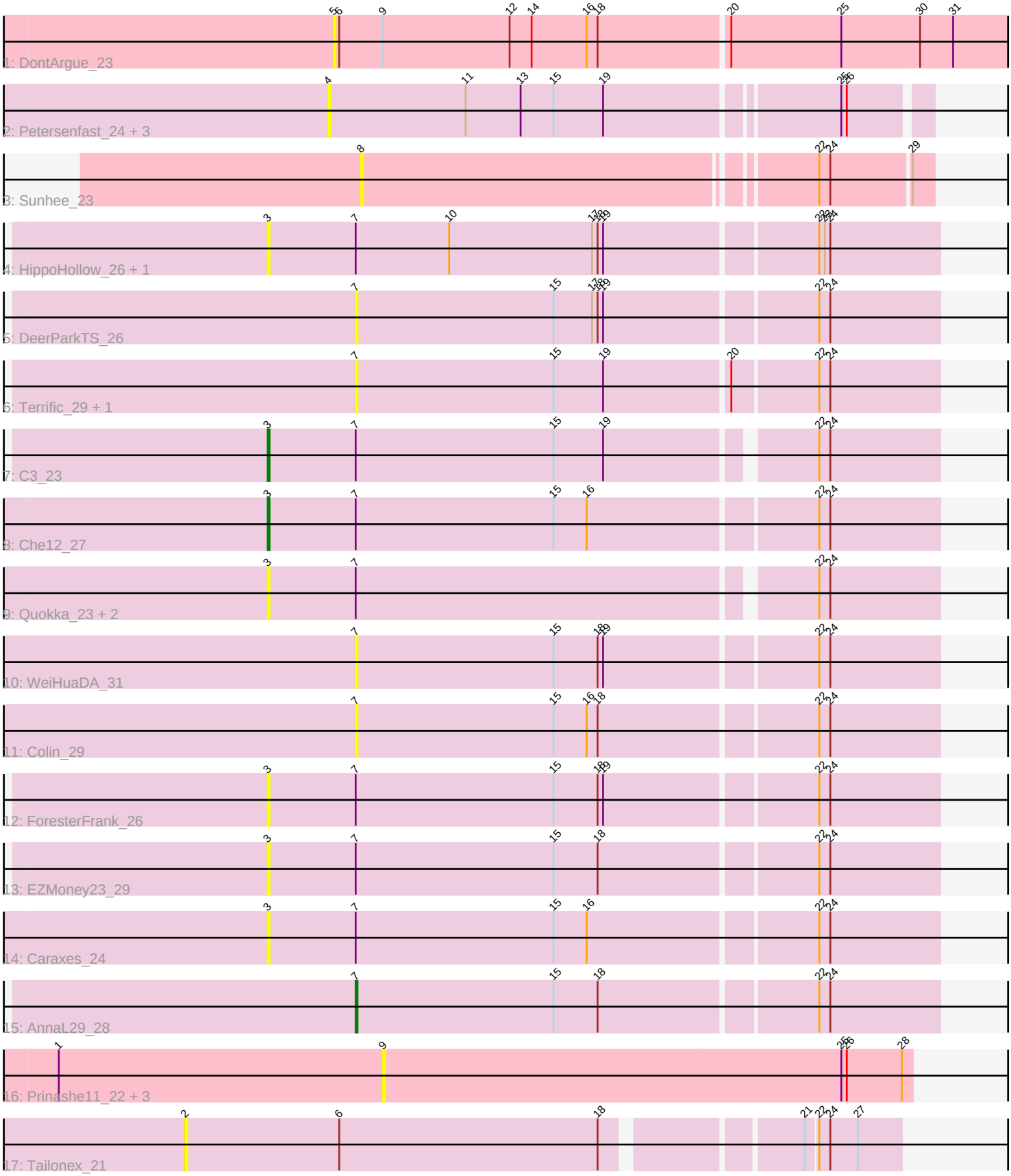
Pham 296853


1: DontArgue_23
2: Petersenfast_24 + 3
3: Sunhee_23
4: HippoHollow_26 + 1
5: DeerParkTS_26
6: Terrific_29 + 1
7: C3_23
8: Che12_27
9: Quokka_23 + 2
10: WeiHuaDA_31
11: Colin_29
12: ForesterFrank_26
13: EZMoney23_29
14: Caraxes_24
15: AnnaL29_28
16: Prinashe11_22 + 3
17: Tailonex_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 296853 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296853 has 27 members, 24 are drafts.

Phages represented in each track:
• Track 1 : DontArgue_23
• Track 2 : Petersenfast_24, Saskia_24, Wolpertinger_24, Kimba_25
• Track 3 : Sunhee_23
• Track 4 : HippoHollow_26, LionsBait_26
• Track 5 : DeerParkTS_26
• Track 6 : Terrific_29, Gratitude_26
• Track 7 : C3_23
• Track 8 : Che12_27
• Track 9 : Quokka_23, Bradman_24, MajorMajor_24
• Track 10 : WeiHuaDA_31
• Track 11 : Colin_29
• Track 12 : ForesterFrank_26
• Track 13 : EZMoney23_29
• Track 14 : Caraxes_24
• Track 15 : AnnaL29_28
• Track 16 : Prinashe11_22, Twigg_21, Florence4_22, Florence1_21
• Track 17 : Tailonex_21

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

The start number called the most often in the published annotations is 3, it was called in 2 of the 3 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bradman_24, C3_23, Caraxes_24, Che12_27, EZMoney23_29, ForesterFrank_26, HippoHollow_26, LionsBait_26, MajorMajor_24, Quokka_23,

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

Genes that do not have the "Most Annotated" start:
• AnnaL29_28, Colin_29, DeerParkTS_26, DontArgue_23, Florence1_21, Florence4_22, Gratitude_26, Kimba_25, Petersenfast_24, Prinashe11_22, Saskia_24, Sunhee_23, Tailonex_21, Terrific_29, Twigg_21, WeiHuaDA_31,

Wolpertinger_24,

Summary by start number:

Start 2:
• Found in 1 of 27 (3.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tailonex_21 (singleton),

Start 3:
• Found in 10 of 27 (37.0%) of genes in pham
• Manual Annotations of this start: 2 of 3
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bradman_24 (A2), C3_23 (A2), Caraxes_24 (A2), Che12_27 (A2), EZMoney23_29 (A2), ForesterFrank_26 (A2), HippoHollow_26 (A2), LionsBait_26 (A2), MajorMajor_24 (A2), Quokka_23 (A2),

Start 4:
• Found in 4 of 27 (14.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kimba_25 (A11), Petersenfast_24 (A11), Saskia_24 (A11), Wolpertinger_24 (A11),

Start 5:
• Found in 1 of 27 (3.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DontArgue_23 (A10),

Start 7:
• Found in 16 of 27 (59.3%) of genes in pham
• Manual Annotations of this start: 1 of 3
• Called 37.5% of time when present
• Phage (with cluster) where this start called: AnnaL29_28 (A2), Colin_29 (A2), DeerParkTS_26 (A2), Gratitude_26 (A2), Terrific_29 (A2), WeiHuaDA_31 (A2),

Start 8:
• Found in 1 of 27 (3.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sunhee_23 (A14),

Start 9:
• Found in 5 of 27 (18.5%) of genes in pham
• No Manual Annotations of this start.
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Florence1_21 (A5), Florence4_22 (A5), Prinashe11_22 (A5), Twigg_21 (A5),

Summary by clusters:

There are 6 clusters represented in this pham: A14, singleton, A11, A10, A2, A5,

Info for manual annotations of cluster A2:
•Start number 3 was manually annotated 2 times for cluster A2.
•Start number 7 was manually annotated 1 time for cluster A2.

Gene Information:

Gene: AnnaL29_28 Start: 18178, Stop: 18489, Start Num: 7
Candidate Starts for AnnaL29_28:
(Start: 7 @18178 has 1 MA's), (15, 18286), (18, 18310), (22, 18424), (24, 18430),

Gene: Bradman_24 Start: 15185, Stop: 15538, Start Num: 3
Candidate Starts for Bradman_24:
(Start: 3 @15185 has 2 MA's), (Start: 7 @15233 has 1 MA's), (22, 15473), (24, 15479),

Gene: C3_23 Start: 16308, Stop: 16661, Start Num: 3
Candidate Starts for C3_23:
(Start: 3 @16308 has 2 MA's), (Start: 7 @16356 has 1 MA's), (15, 16464), (19, 16491), (22, 16596), (24, 16602),

Gene: Caraxes_24 Start: 14918, Stop: 15277, Start Num: 3
Candidate Starts for Caraxes_24:
(Start: 3 @14918 has 2 MA's), (Start: 7 @14966 has 1 MA's), (15, 15074), (16, 15092), (22, 15212), (24, 15218),

Gene: Che12_27 Start: 15178, Stop: 15537, Start Num: 3
Candidate Starts for Che12_27:
(Start: 3 @15178 has 2 MA's), (Start: 7 @15226 has 1 MA's), (15, 15334), (16, 15352), (22, 15472), (24, 15478),

Gene: Colin_29 Start: 18010, Stop: 18321, Start Num: 7
Candidate Starts for Colin_29:
(Start: 7 @18010 has 1 MA's), (15, 18118), (16, 18136), (18, 18142), (22, 18256), (24, 18262),

Gene: DeerParkTS_26 Start: 16386, Stop: 16697, Start Num: 7
Candidate Starts for DeerParkTS_26:
(Start: 7 @16386 has 1 MA's), (15, 16494), (17, 16515), (18, 16518), (19, 16521), (22, 16632), (24, 16638),

Gene: DontArgue_23 Start: 13643, Stop: 14041, Start Num: 5
Candidate Starts for DontArgue_23:
(5, 13643), (6, 13646), (9, 13670), (12, 13739), (14, 13751), (16, 13781), (18, 13787), (20, 13856), (25, 13916), (30, 13958), (31, 13976),

Gene: EZMoney23_29 Start: 18248, Stop: 18607, Start Num: 3
Candidate Starts for EZMoney23_29:

(Start: 3 @18248 has 2 MA's), (Start: 7 @18296 has 1 MA's), (15, 18404), (18, 18428), (22, 18542), (24, 18548),

Gene: Florence1_21 Start: 14740, Stop: 15027, Start Num: 9
Candidate Starts for Florence1_21:
(1, 14563), (9, 14740), (25, 14989), (26, 14992), (28, 15022),

Gene: Florence4_22 Start: 14740, Stop: 15027, Start Num: 9
Candidate Starts for Florence4_22:
(1, 14563), (9, 14740), (25, 14989), (26, 14992), (28, 15022),

Gene: ForesterFrank_26 Start: 17788, Stop: 18147, Start Num: 3
Candidate Starts for ForesterFrank_26:
(Start: 3 @17788 has 2 MA's), (Start: 7 @17836 has 1 MA's), (15, 17944), (18, 17968), (19, 17971), (22, 18082), (24, 18088),

Gene: Gratitude_26 Start: 16814, Stop: 17125, Start Num: 7
Candidate Starts for Gratitude_26:
(Start: 7 @16814 has 1 MA's), (15, 16922), (19, 16949), (20, 17015), (22, 17060), (24, 17066),

Gene: HippoHollow_26 Start: 18036, Stop: 18395, Start Num: 3
Candidate Starts for HippoHollow_26:
(Start: 3 @18036 has 2 MA's), (Start: 7 @18084 has 1 MA's), (10, 18135), (17, 18213), (18, 18216), (19, 18219), (22, 18330), (23, 18333), (24, 18336),

Gene: Kimba_25 Start: 16908, Stop: 17222, Start Num: 4
Candidate Starts for Kimba_25:
(4, 16908), (11, 16983), (13, 17013), (15, 17031), (19, 17058), (25, 17178), (26, 17181),

Gene: LionsBait_26 Start: 18030, Stop: 18389, Start Num: 3
Candidate Starts for LionsBait_26:
(Start: 3 @18030 has 2 MA's), (Start: 7 @18078 has 1 MA's), (10, 18129), (17, 18207), (18, 18210), (19, 18213), (22, 18324), (23, 18327), (24, 18330),

Gene: MajorMajor_24 Start: 15185, Stop: 15538, Start Num: 3
Candidate Starts for MajorMajor_24:
(Start: 3 @15185 has 2 MA's), (Start: 7 @15233 has 1 MA's), (22, 15473), (24, 15479),

Gene: Petersenfast_24 Start: 16853, Stop: 17167, Start Num: 4
Candidate Starts for Petersenfast_24:
(4, 16853), (11, 16928), (13, 16958), (15, 16976), (19, 17003), (25, 17123), (26, 17126),

Gene: Prinashe11_22 Start: 14920, Stop: 15207, Start Num: 9
Candidate Starts for Prinashe11_22:
(1, 14743), (9, 14920), (25, 15169), (26, 15172), (28, 15202),

Gene: Quokka_23 Start: 15185, Stop: 15538, Start Num: 3
Candidate Starts for Quokka_23:
(Start: 3 @15185 has 2 MA's), (Start: 7 @15233 has 1 MA's), (22, 15473), (24, 15479),

Gene: Saskia_24 Start: 16850, Stop: 17164, Start Num: 4
Candidate Starts for Saskia_24:
(4, 16850), (11, 16925), (13, 16955), (15, 16973), (19, 17000), (25, 17120), (26, 17123),

Gene: Sunhee_23 Start: 15505, Stop: 15801, Start Num: 8
Candidate Starts for Sunhee_23:
(8, 15505), (22, 15742), (24, 15748), (29, 15790),

Gene: Tailonex_21 Start: 14580, Stop: 14951, Start Num: 2
Candidate Starts for Tailonex_21:
(2, 14580), (6, 14664), (18, 14805), (21, 14901), (22, 14907), (24, 14913), (27, 14928),

Gene: Terrific_29 Start: 16826, Stop: 17137, Start Num: 7
Candidate Starts for Terrific_29:
(Start: 7 @16826 has 1 MA's), (15, 16934), (19, 16961), (20, 17027), (22, 17072), (24, 17078),

Gene: Twigg_21 Start: 14923, Stop: 15210, Start Num: 9
Candidate Starts for Twigg_21:
(1, 14746), (9, 14923), (25, 15172), (26, 15175), (28, 15205),

Gene: WeiHuaDA_31 Start: 18580, Stop: 18891, Start Num: 7
Candidate Starts for WeiHuaDA_31:
(Start: 7 @18580 has 1 MA's), (15, 18688), (18, 18712), (19, 18715), (22, 18826), (24, 18832),

Gene: Wolpertinger_24 Start: 16853, Stop: 17167, Start Num: 4
Candidate Starts for Wolpertinger_24:
(4, 16853), (11, 16928), (13, 16958), (15, 16976), (19, 17003), (25, 17123), (26, 17126),