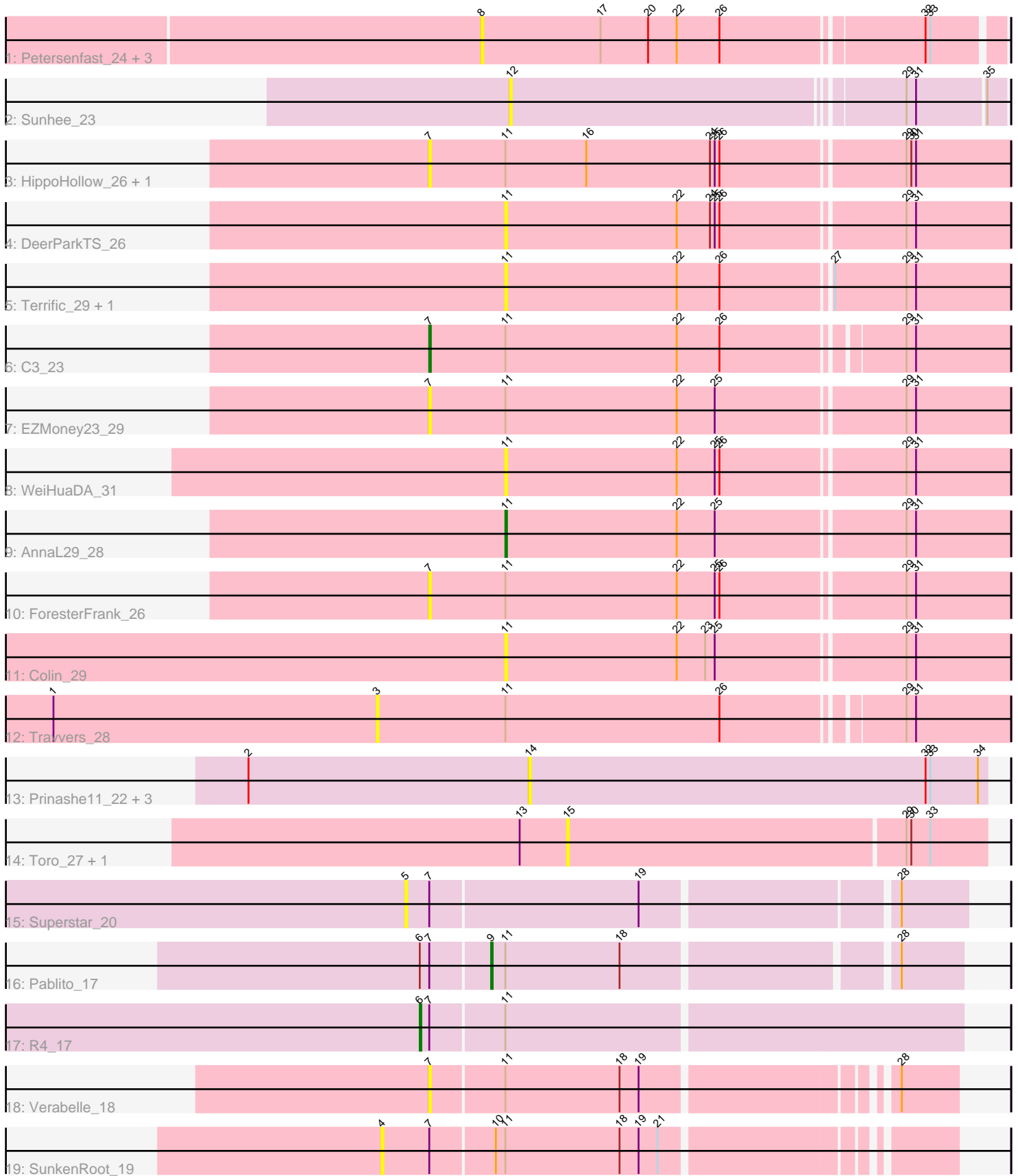


# Pham 294978



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 294978 Report

This analysis was run 04/18/26 on database version 643.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 294978 has 28 members, 24 are drafts.

Phages represented in each track:

- Track 1 : Petersenfast\_24, Saskia\_24, Wolpertinger\_24, Kimba\_25
- Track 2 : Sunhee\_23
- Track 3 : HippoHollow\_26, LionsBait\_26
- Track 4 : DeerParkTS\_26
- Track 5 : Terrific\_29, Gratitude\_26
- Track 6 : C3\_23
- Track 7 : EZMoney23\_29
- Track 8 : WeiHuaDA\_31
- Track 9 : AnnaL29\_28
- Track 10 : ForesterFrank\_26
- Track 11 : Colin\_29
- Track 12 : Travvers\_28
- Track 13 : Prinash11\_22, Twigg\_21, Florence4\_22, Florence1\_21
- Track 14 : Toro\_27, FlyCatcher\_28
- Track 15 : Superstar\_20
- Track 16 : Pablito\_17
- Track 17 : R4\_17
- Track 18 : Verabelle\_18
- Track 19 : SunkenRoot\_19

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

The start number called the most often in the published annotations is 6, it was called in 1 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- R4\_17,

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

- Pablito\_17,

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

- AnnaL29\_28, C3\_23, Colin\_29, DeerParkTS\_26, EZMoney23\_29, Florence1\_21, Florence4\_22, FlyCatcher\_28, ForesterFrank\_26, Gratitude\_26, HippoHollow\_26, Kimba\_25, LionsBait\_26, Petersenfast\_24, Prinash11\_22, Saskia\_24, Sunhee\_23, SunkenRoot\_19, Superstar\_20, Terrific\_29, Toro\_27, Travvers\_28, Twigg\_21, Verabelle\_18, WeiHuaDA\_31, Wolpertinger\_24,

### Summary by start number:

Start 3:

- Found in 1 of 28 ( 3.6% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Travvers\_28 (A2),

Start 4:

- Found in 1 of 28 ( 3.6% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SunkenRoot\_19 (BD3),

Start 5:

- Found in 1 of 28 ( 3.6% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Superstar\_20 (BD2),

Start 6:

- Found in 2 of 28 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 1 of 4
- Called 50.0% of time when present
- Phage (with cluster) where this start called: R4\_17 (BD2),

Start 7:

- Found in 10 of 28 ( 35.7% ) of genes in pham
- Manual Annotations of this start: 1 of 4
- Called 60.0% of time when present
- Phage (with cluster) where this start called: C3\_23 (A2), EZMoney23\_29 (A2), ForesterFrank\_26 (A2), HippoHollow\_26 (A2), LionsBait\_26 (A2), Verabelle\_18 (BD3),

Start 8:

- Found in 4 of 28 ( 14.3% ) 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 9:

- Found in 1 of 28 ( 3.6% ) of genes in pham
- Manual Annotations of this start: 1 of 4
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Pablito\_17 (BD2),

Start 11:

- Found in 16 of 28 ( 57.1% ) of genes in pham
- Manual Annotations of this start: 1 of 4
- 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 12:

- Found in 1 of 28 ( 3.6% ) 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 14:

- Found in 4 of 28 ( 14.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Florence1\_21 (A5), Florence4\_22 (A5), Prinashe11\_22 (A5), Twigg\_21 (A5),

Start 15:

- Found in 2 of 28 ( 7.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: FlyCatcher\_28 (A7), Toro\_27 (A7),

### **Summary by clusters:**

There are 7 clusters represented in this pham: A14, A11, BD3, A2, A5, A7, BD2,

Info for manual annotations of cluster A2:

- Start number 7 was manually annotated 1 time for cluster A2.
- Start number 11 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster BD2:

- Start number 6 was manually annotated 1 time for cluster BD2.
- Start number 9 was manually annotated 1 time for cluster BD2.

### **Gene Information:**

Gene: AnnaL29\_28 Start: 18178, Stop: 18489, Start Num: 11

Candidate Starts for AnnaL29\_28:

(Start: 11 @18178 has 1 MA's), (22, 18286), (25, 18310), (29, 18424), (31, 18430),

Gene: C3\_23 Start: 16308, Stop: 16661, Start Num: 7  
Candidate Starts for C3\_23:  
(Start: 7 @16308 has 1 MA's), (Start: 11 @16356 has 1 MA's), (22, 16464), (26, 16491), (29, 16596),  
(31, 16602),

Gene: Colin\_29 Start: 18010, Stop: 18321, Start Num: 11  
Candidate Starts for Colin\_29:  
(Start: 11 @18010 has 1 MA's), (22, 18118), (23, 18136), (25, 18142), (29, 18256), (31, 18262),

Gene: DeerParkTS\_26 Start: 16386, Stop: 16697, Start Num: 11  
Candidate Starts for DeerParkTS\_26:  
(Start: 11 @16386 has 1 MA's), (22, 16494), (24, 16515), (25, 16518), (26, 16521), (29, 16632), (31,  
16638),

Gene: EZMoney23\_29 Start: 18248, Stop: 18607, Start Num: 7  
Candidate Starts for EZMoney23\_29:  
(Start: 7 @18248 has 1 MA's), (Start: 11 @18296 has 1 MA's), (22, 18404), (25, 18428), (29, 18542),  
(31, 18548),

Gene: Florence1\_21 Start: 14740, Stop: 15027, Start Num: 14  
Candidate Starts for Florence1\_21:  
(2, 14563), (14, 14740), (32, 14989), (33, 14992), (34, 15022),

Gene: Florence4\_22 Start: 14740, Stop: 15027, Start Num: 14  
Candidate Starts for Florence4\_22:  
(2, 14563), (14, 14740), (32, 14989), (33, 14992), (34, 15022),

Gene: FlyCatcher\_28 Start: 17296, Stop: 17556, Start Num: 15  
Candidate Starts for FlyCatcher\_28:  
(13, 17266), (15, 17296), (29, 17506), (30, 17509), (33, 17521),

Gene: ForesterFrank\_26 Start: 17788, Stop: 18147, Start Num: 7  
Candidate Starts for ForesterFrank\_26:  
(Start: 7 @17788 has 1 MA's), (Start: 11 @17836 has 1 MA's), (22, 17944), (25, 17968), (26, 17971),  
(29, 18082), (31, 18088),

Gene: Gratitude\_26 Start: 16814, Stop: 17125, Start Num: 11  
Candidate Starts for Gratitude\_26:  
(Start: 11 @16814 has 1 MA's), (22, 16922), (26, 16949), (27, 17015), (29, 17060), (31, 17066),

Gene: HippoHollow\_26 Start: 18036, Stop: 18395, Start Num: 7  
Candidate Starts for HippoHollow\_26:  
(Start: 7 @18036 has 1 MA's), (Start: 11 @18084 has 1 MA's), (16, 18135), (24, 18213), (25, 18216),  
(26, 18219), (29, 18330), (30, 18333), (31, 18336),

Gene: Kimba\_25 Start: 16908, Stop: 17222, Start Num: 8  
Candidate Starts for Kimba\_25:  
(8, 16908), (17, 16983), (20, 17013), (22, 17031), (26, 17058), (32, 17178), (33, 17181),

Gene: LionsBait\_26 Start: 18030, Stop: 18389, Start Num: 7  
Candidate Starts for LionsBait\_26:  
(Start: 7 @18030 has 1 MA's), (Start: 11 @18078 has 1 MA's), (16, 18129), (24, 18207), (25, 18210),  
(26, 18213), (29, 18324), (30, 18327), (31, 18330),

Gene: Pablito\_17 Start: 11212, Stop: 11490, Start Num: 9

Candidate Starts for Pablito\_17:

(Start: 6 @11170 has 1 MA's), (Start: 7 @11176 has 1 MA's), (Start: 9 @11212 has 1 MA's), (Start: 11 @11221 has 1 MA's), (18, 11293), (28, 11452),

Gene: Petersenfast\_24 Start: 16853, Stop: 17167, Start Num: 8

Candidate Starts for Petersenfast\_24:

(8, 16853), (17, 16928), (20, 16958), (22, 16976), (26, 17003), (32, 17123), (33, 17126),

Gene: Prinash11\_22 Start: 14920, Stop: 15207, Start Num: 14

Candidate Starts for Prinash11\_22:

(2, 14743), (14, 14920), (32, 15169), (33, 15172), (34, 15202),

Gene: R4\_17 Start: 11302, Stop: 11634, Start Num: 6

Candidate Starts for R4\_17:

(Start: 6 @11302 has 1 MA's), (Start: 7 @11308 has 1 MA's), (Start: 11 @11353 has 1 MA's),

Gene: Saskia\_24 Start: 16850, Stop: 17164, Start Num: 8

Candidate Starts for Saskia\_24:

(8, 16850), (17, 16925), (20, 16955), (22, 16973), (26, 17000), (32, 17120), (33, 17123),

Gene: Sunhee\_23 Start: 15505, Stop: 15801, Start Num: 12

Candidate Starts for Sunhee\_23:

(12, 15505), (29, 15742), (31, 15748), (35, 15790),

Gene: SunkenRoot\_19 Start: 11508, Stop: 11843, Start Num: 4

Candidate Starts for SunkenRoot\_19:

(4, 11508), (Start: 7 @11538 has 1 MA's), (10, 11577), (Start: 11 @11583 has 1 MA's), (18, 11655), (19, 11667), (21, 11679),

Gene: Superstar\_20 Start: 12332, Stop: 12667, Start Num: 5

Candidate Starts for Superstar\_20:

(5, 12332), (Start: 7 @12347 has 1 MA's), (19, 12476), (28, 12626),

Gene: Terrific\_29 Start: 16826, Stop: 17137, Start Num: 11

Candidate Starts for Terrific\_29:

(Start: 11 @16826 has 1 MA's), (22, 16934), (26, 16961), (27, 17027), (29, 17072), (31, 17078),

Gene: Toro\_27 Start: 17296, Stop: 17556, Start Num: 15

Candidate Starts for Toro\_27:

(13, 17266), (15, 17296), (29, 17506), (30, 17509), (33, 17521),

Gene: Travvers\_28 Start: 16132, Stop: 16518, Start Num: 3

Candidate Starts for Travvers\_28:

(1, 15928), (3, 16132), (Start: 11 @16213 has 1 MA's), (26, 16348), (29, 16453), (31, 16459),

Gene: Twigg\_21 Start: 14923, Stop: 15210, Start Num: 14

Candidate Starts for Twigg\_21:

(2, 14746), (14, 14923), (32, 15172), (33, 15175), (34, 15205),

Gene: Verabelle\_18 Start: 11240, Stop: 11545, Start Num: 7

Candidate Starts for Verabelle\_18:

(Start: 7 @11240 has 1 MA's), (Start: 11 @11285 has 1 MA's), (18, 11357), (19, 11369), (28, 11510),

Gene: WeiHuaDA\_31 Start: 18580, Stop: 18891, Start Num: 11

Candidate Starts for WeiHuaDA\_31:

(Start: 11 @18580 has 1 MA's), (22, 18688), (25, 18712), (26, 18715), (29, 18826), (31, 18832),

Gene: Wolpertinger\_24 Start: 16853, Stop: 17167, Start Num: 8

Candidate Starts for Wolpertinger\_24:

(8, 16853), (17, 16928), (20, 16958), (22, 16976), (26, 17003), (32, 17123), (33, 17126),