

Pham 203129



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 203129 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203129 has 37 members, 18 are drafts.

Phages represented in each track:

- Track 1 : Auxilium\_6, Richie\_6, AdaS\_6, BillyTP\_6, Raphaella\_6, CookieBear\_6
- Track 2 : BenchScraper\_6
- Track 3 : Bhageatrice\_8, Gorpy\_6, Sakai\_6
- Track 4 : Persistence\_5
- Track 5 : Vopal\_7, Isolde\_7, Windest\_7
- Track 6 : BlueShadow\_6, Faja\_6, MidnightRain\_6, RadFad\_6, Aikyam\_6, MaterMagnus\_6, Hillester\_6
- Track 7 : YoungHarleezy\_6
- Track 8 : SpicyFrank\_6
- Track 9 : Globfish\_6
- Track 10 : Hestia\_6, ThayneTheZag\_6
- Track 11 : Shukran\_6, EvePickles\_6, Sashimi\_7
- Track 12 : Tiff81\_7
- Track 13 : Lawnathon\_6
- Track 14 : Anekin\_5
- Track 15 : Seahorse\_7
- Track 16 : Phrank15\_5
- Track 17 : Bauer\_7, Zucker\_6
- Track 18 : BlackSpider\_5

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

The start number called the most often in the published annotations is 16, it was called in 16 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AdaS\_6, Aikyam\_6, Anekin\_5, Auxilium\_6, BenchScraper\_6, Bhageatrice\_8, BillyTP\_6, BlueShadow\_6, CookieBear\_6, EvePickles\_6, Faja\_6, Globfish\_6, Gorpy\_6, Hestia\_6, Hillester\_6, Isolde\_7, Lawnathon\_6, MaterMagnus\_6, MidnightRain\_6, Persistence\_5, Phrank15\_5, RadFad\_6, Raphaella\_6, Richie\_6, Sakai\_6, Sashimi\_7, Shukran\_6, SpicyFrank\_6, ThayneTheZag\_6, Tiff81\_7, Vopal\_7, Windest\_7, YoungHarleezy\_6,

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

- Bauer\_7, BlackSpider\_5, Seahorse\_7, Zucker\_6,

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

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### Summary by start number:

Start 10:

- Found in 4 of 37 ( 10.8% ) of genes in pham
- Manual Annotations of this start: 3 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bauer\_7 (FN), BlackSpider\_5 (FN), Seahorse\_7 (AY), Zucker\_6 (FN),

Start 16:

- Found in 37 of 37 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 16 of 19
- Called 89.2% of time when present
- Phage (with cluster) where this start called: AdaS\_6 (AY), Aikyam\_6 (AY), Anekin\_5 (AY), Auxilium\_6 (AY), BenchScraper\_6 (AY), Bhageatrice\_8 (AY), BillyTP\_6 (AY), BlueShadow\_6 (AY), CookieBear\_6 (AY), EvePickles\_6 (AY), Faja\_6 (AY), Globfish\_6 (AY), Gorpy\_6 (AY), Hestia\_6 (AY), Hillester\_6 (AY), Isolde\_7 (AY), Lawnathon\_6 (AY), MaterMagnus\_6 (AY), MidnightRain\_6 (AY), Persistence\_5 (AY), Phrank15\_5 (AY), RadFad\_6 (AY), Raphaella\_6 (AY), Richie\_6 (AY), Sakai\_6 (AY), Sashimi\_7 (AY), Shukran\_6 (AY), SpicyFrank\_6 (AY), ThayneTheZag\_6 (AY), Tiff81\_7 (AY), Vopal\_7 (AY), Windest\_7 (AY), YoungHarleezy\_6 (AY),

### Summary by clusters:

There are 2 clusters represented in this pham: AY, FN,

Info for manual annotations of cluster AY:

- Start number 10 was manually annotated 1 time for cluster AY.
- Start number 16 was manually annotated 16 times for cluster AY.

Info for manual annotations of cluster FN:

- Start number 10 was manually annotated 2 times for cluster FN.

### Gene Information:

Gene: AdaS\_6 Start: 4952, Stop: 5458, Start Num: 16

Candidate Starts for AdaS\_6:

(15, 4949), (Start: 16 @4952 has 16 MA's), (24, 5261), (27, 5288), (29, 5312),

Gene: Aikyam\_6 Start: 4944, Stop: 5444, Start Num: 16

Candidate Starts for Aikyam\_6:

(Start: 16 @4944 has 16 MA's), (27, 5277),

Gene: Anekin\_5 Start: 5066, Stop: 5599, Start Num: 16

Candidate Starts for Anekin\_5:

(12, 5030), (15, 5063), (Start: 16 @5066 has 16 MA's), (28, 5453),

Gene: Auxilium\_6 Start: 4952, Stop: 5458, Start Num: 16  
Candidate Starts for Auxilium\_6:  
(15, 4949), (Start: 16 @4952 has 16 MA's), (24, 5261), (27, 5288), (29, 5312),

Gene: Bauer\_7 Start: 5263, Stop: 5898, Start Num: 10  
Candidate Starts for Bauer\_7:  
(5, 5155), (6, 5209), (Start: 10 @5263 has 3 MA's), (11, 5311), (13, 5323), (14, 5338), (15, 5356),  
(Start: 16 @5359 has 16 MA's), (17, 5455), (19, 5479),

Gene: BenchScraper\_6 Start: 4952, Stop: 5458, Start Num: 16  
Candidate Starts for BenchScraper\_6:  
(15, 4949), (Start: 16 @4952 has 16 MA's), (26, 5285), (27, 5288), (29, 5312),

Gene: Bhageatrice\_8 Start: 6147, Stop: 6653, Start Num: 16  
Candidate Starts for Bhageatrice\_8:  
(15, 6144), (Start: 16 @6147 has 16 MA's), (22, 6429), (23, 6438), (29, 6507),

Gene: BillyTP\_6 Start: 4946, Stop: 5452, Start Num: 16  
Candidate Starts for BillyTP\_6:  
(15, 4943), (Start: 16 @4946 has 16 MA's), (24, 5255), (27, 5282), (29, 5306),

Gene: BlackSpider\_5 Start: 4325, Stop: 4957, Start Num: 10  
Candidate Starts for BlackSpider\_5:  
(Start: 10 @4325 has 3 MA's), (11, 4373), (13, 4385), (15, 4418), (Start: 16 @4421 has 16 MA's), (19, 4544), (32, 4856),

Gene: BlueShadow\_6 Start: 4944, Stop: 5447, Start Num: 16  
Candidate Starts for BlueShadow\_6:  
(Start: 16 @4944 has 16 MA's), (27, 5277),

Gene: CookieBear\_6 Start: 4952, Stop: 5458, Start Num: 16  
Candidate Starts for CookieBear\_6:  
(15, 4949), (Start: 16 @4952 has 16 MA's), (24, 5261), (27, 5288), (29, 5312),

Gene: EvePickles\_6 Start: 4997, Stop: 5500, Start Num: 16  
Candidate Starts for EvePickles\_6:  
(15, 4994), (Start: 16 @4997 has 16 MA's), (23, 5288), (29, 5357),

Gene: Faja\_6 Start: 4944, Stop: 5444, Start Num: 16  
Candidate Starts for Faja\_6:  
(Start: 16 @4944 has 16 MA's), (27, 5277),

Gene: Globfish\_6 Start: 4997, Stop: 5503, Start Num: 16  
Candidate Starts for Globfish\_6:  
(15, 4994), (Start: 16 @4997 has 16 MA's), (26, 5330), (27, 5333), (29, 5357),

Gene: Gorpy\_6 Start: 4946, Stop: 5452, Start Num: 16  
Candidate Starts for Gorpy\_6:  
(15, 4943), (Start: 16 @4946 has 16 MA's), (22, 5228), (23, 5237), (29, 5306),

Gene: Hestia\_6 Start: 5060, Stop: 5593, Start Num: 16  
Candidate Starts for Hestia\_6:

(15, 5057), (Start: 16 @5060 has 16 MA's), (21, 5294), (28, 5447),

Gene: Hillester\_6 Start: 4944, Stop: 5447, Start Num: 16

Candidate Starts for Hillester\_6:

(Start: 16 @4944 has 16 MA's), (27, 5277),

Gene: Isolde\_7 Start: 4984, Stop: 5517, Start Num: 16

Candidate Starts for Isolde\_7:

(8, 4873), (12, 4948), (15, 4981), (Start: 16 @4984 has 16 MA's), (21, 5218), (28, 5371),

Gene: Lawnathon\_6 Start: 4996, Stop: 5529, Start Num: 16

Candidate Starts for Lawnathon\_6:

(12, 4960), (15, 4993), (Start: 16 @4996 has 16 MA's), (21, 5230), (23, 5317), (28, 5383),

Gene: MaterMagnus\_6 Start: 4944, Stop: 5444, Start Num: 16

Candidate Starts for MaterMagnus\_6:

(Start: 16 @4944 has 16 MA's), (27, 5277),

Gene: MidnightRain\_6 Start: 4944, Stop: 5447, Start Num: 16

Candidate Starts for MidnightRain\_6:

(Start: 16 @4944 has 16 MA's), (27, 5277),

Gene: Persistence\_5 Start: 5021, Stop: 5554, Start Num: 16

Candidate Starts for Persistence\_5:

(12, 4985), (15, 5018), (Start: 16 @5021 has 16 MA's), (21, 5255), (28, 5408),

Gene: Phrank15\_5 Start: 5067, Stop: 5600, Start Num: 16

Candidate Starts for Phrank15\_5:

(12, 5031), (15, 5064), (Start: 16 @5067 has 16 MA's), (20, 5235), (23, 5388), (28, 5454),

Gene: RadFad\_6 Start: 4944, Stop: 5447, Start Num: 16

Candidate Starts for RadFad\_6:

(Start: 16 @4944 has 16 MA's), (27, 5277),

Gene: Raphaella\_6 Start: 4952, Stop: 5458, Start Num: 16

Candidate Starts for Raphaella\_6:

(15, 4949), (Start: 16 @4952 has 16 MA's), (24, 5261), (27, 5288), (29, 5312),

Gene: Richie\_6 Start: 4952, Stop: 5458, Start Num: 16

Candidate Starts for Richie\_6:

(15, 4949), (Start: 16 @4952 has 16 MA's), (24, 5261), (27, 5288), (29, 5312),

Gene: Sakai\_6 Start: 4946, Stop: 5452, Start Num: 16

Candidate Starts for Sakai\_6:

(15, 4943), (Start: 16 @4946 has 16 MA's), (22, 5228), (23, 5237), (29, 5306),

Gene: Sashimi\_7 Start: 5113, Stop: 5619, Start Num: 16

Candidate Starts for Sashimi\_7:

(15, 5110), (Start: 16 @5113 has 16 MA's), (23, 5404), (29, 5473),

Gene: Seahorse\_7 Start: 5084, Stop: 5734, Start Num: 10

Candidate Starts for Seahorse\_7:

(1, 4862), (2, 4916), (7, 5051), (Start: 10 @5084 has 3 MA's), (13, 5144), (Start: 16 @5180 has 16 MA's), (17, 5309), (18, 5324), (19, 5333), (25, 5546), (30, 5594), (31, 5603),

Gene: Shukran\_6 Start: 4951, Stop: 5457, Start Num: 16

Candidate Starts for Shukran\_6:

(15, 4948), (Start: 16 @4951 has 16 MA's), (23, 5242), (29, 5311),

Gene: SpicyFrank\_6 Start: 4997, Stop: 5506, Start Num: 16

Candidate Starts for SpicyFrank\_6:

(9, 4898), (15, 4994), (Start: 16 @4997 has 16 MA's), (27, 5336), (29, 5360),

Gene: ThayneTheZag\_6 Start: 4948, Stop: 5481, Start Num: 16

Candidate Starts for ThayneTheZag\_6:

(15, 4945), (Start: 16 @4948 has 16 MA's), (21, 5182), (28, 5335),

Gene: Tiff81\_7 Start: 5109, Stop: 5615, Start Num: 16

Candidate Starts for Tiff81\_7:

(3, 4854), (4, 4908), (15, 5106), (Start: 16 @5109 has 16 MA's), (22, 5391), (23, 5400), (29, 5469), (33, 5577),

Gene: Vopal\_7 Start: 4984, Stop: 5517, Start Num: 16

Candidate Starts for Vopal\_7:

(8, 4873), (12, 4948), (15, 4981), (Start: 16 @4984 has 16 MA's), (21, 5218), (28, 5371),

Gene: Windest\_7 Start: 4984, Stop: 5517, Start Num: 16

Candidate Starts for Windest\_7:

(8, 4873), (12, 4948), (15, 4981), (Start: 16 @4984 has 16 MA's), (21, 5218), (28, 5371),

Gene: YoungHarleezy\_6 Start: 4950, Stop: 5456, Start Num: 16

Candidate Starts for YoungHarleezy\_6:

(15, 4947), (Start: 16 @4950 has 16 MA's), (27, 5286), (29, 5310),

Gene: Zucker\_6 Start: 4575, Stop: 5210, Start Num: 10

Candidate Starts for Zucker\_6:

(5, 4467), (6, 4521), (Start: 10 @4575 has 3 MA's), (11, 4623), (13, 4635), (14, 4650), (15, 4668), (Start: 16 @4671 has 16 MA's), (17, 4767), (19, 4791),