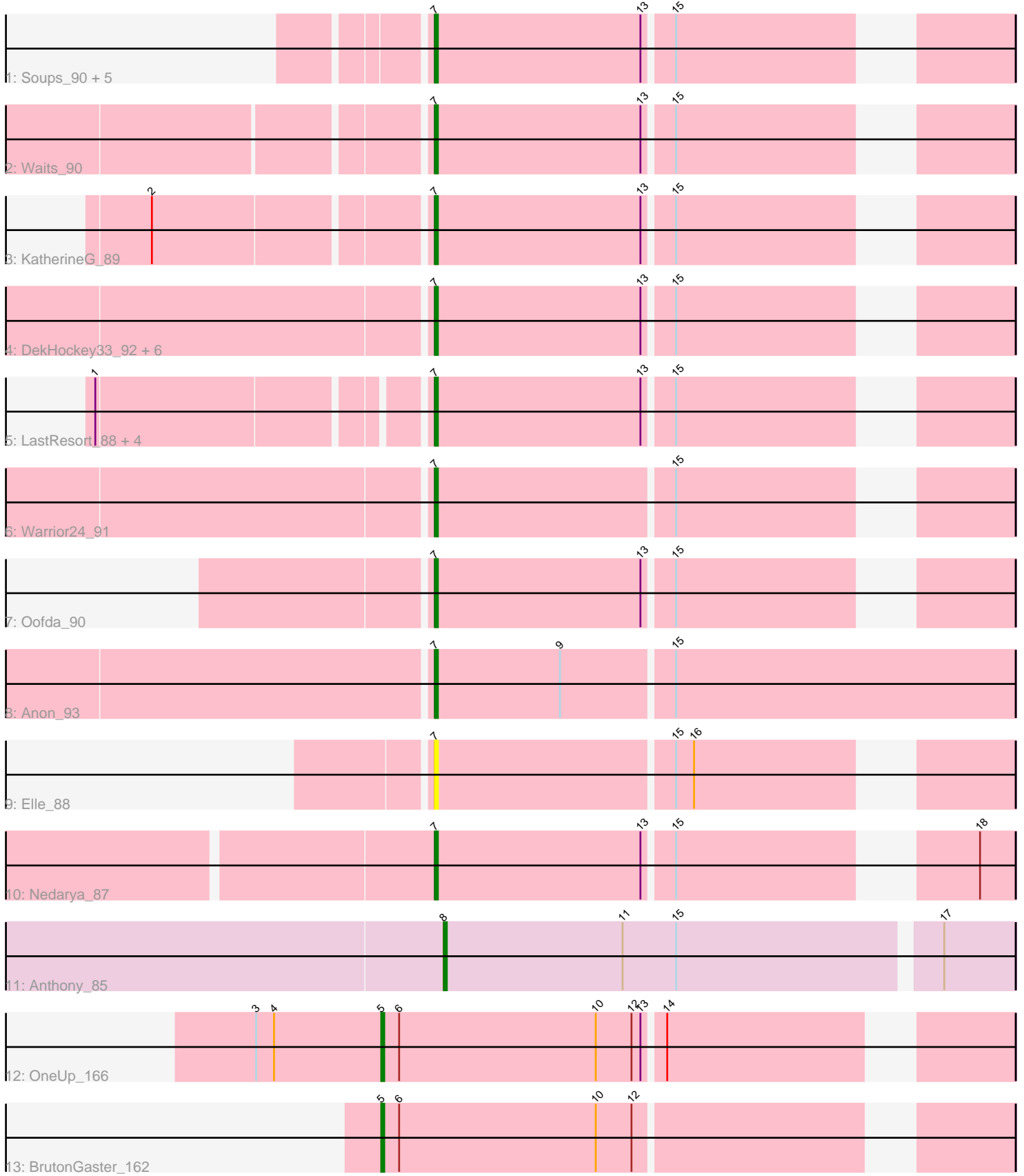


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 301652 Report

This analysis was run 06/08/26 on database version 649.

Pham number 301652 has 28 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Soups\_90, ReMo\_88, Switzerland\_88, ShayRa\_88, Epsocamisio\_88, Rosalind\_89
- Track 2 : Waits\_90
- Track 3 : KatherineG\_89
- Track 4 : DekHockey33\_92, MinecraftSteve\_91, Battleship\_93, Looper\_87, Ravana\_89, Strosahl\_91, Remus\_91
- Track 5 : LastResort\_88, Boohoo\_89, Anaysia\_90, Nebulosus\_87, JSwag\_90
- Track 6 : Warrior24\_91
- Track 7 : Oofda\_90
- Track 8 : Anon\_93
- Track 9 : Elle\_88
- Track 10 : Nedarya\_87
- Track 11 : Anthony\_85
- Track 12 : OneUp\_166
- Track 13 : BrutonGaster\_162

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

The start number called the most often in the published annotations is 7, it was called in 24 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anaysia\_90, Anon\_93, Battleship\_93, Boohoo\_89, DekHockey33\_92, Elle\_88, Epsocamisio\_88, JSwag\_90, KatherineG\_89, LastResort\_88, Looper\_87, MinecraftSteve\_91, Nebulosus\_87, Nedarya\_87, Oofda\_90, Ravana\_89, ReMo\_88, Remus\_91, Rosalind\_89, ShayRa\_88, Soups\_90, Strosahl\_91, Switzerland\_88, Waits\_90, Warrior24\_91,

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

- 

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

- Anthony\_85, BrutonGaster\_162, OneUp\_166,

## Summary by start number:

### Start 5:

- Found in 2 of 28 ( 7.1% ) of genes in pham
- Manual Annotations of this start: 2 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrutonGaster\_162 (CQ2), OneUp\_166 (CQ2),

### Start 7:

- Found in 25 of 28 ( 89.3% ) of genes in pham
- Manual Annotations of this start: 24 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anaysia\_90 (A15), Anon\_93 (A15), Battleship\_93 (A15), Boohoo\_89 (A15), DekHockey33\_92 (A15), Elle\_88 (A15), Epsocamisio\_88 (A15), JSwag\_90 (A15), KatherineG\_89 (A15), LastResort\_88 (A15), Looper\_87 (A15), MinecraftSteve\_91 (A15), Nebulosus\_87 (A15), Nedarya\_87 (A15), Oofda\_90 (A15), Ravana\_89 (A15), ReMo\_88 (A15), Remus\_91 (A15), Rosalind\_89 (A15), ShayRa\_88 (A15), Soups\_90 (A15), Strosahl\_91 (A15), Switzerland\_88 (A15), Waits\_90 (A15), Warrior24\_91 (A15),

### Start 8:

- Found in 1 of 28 ( 3.6% ) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anthony\_85 (A20),

## Summary by clusters:

There are 3 clusters represented in this pham: A15, CQ2, A20,

Info for manual annotations of cluster A15:

- Start number 7 was manually annotated 24 times for cluster A15.

Info for manual annotations of cluster A20:

- Start number 8 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster CQ2:

- Start number 5 was manually annotated 2 times for cluster CQ2.

## Gene Information:

Gene: Anaysia\_90 Start: 48060, Stop: 47890, Start Num: 7

Candidate Starts for Anaysia\_90:

(1, 48162), (Start: 7 @48060 has 24 MA's), (13, 47991), (15, 47982),

Gene: Anon\_93 Start: 48812, Stop: 48621, Start Num: 7

Candidate Starts for Anon\_93:

(Start: 7 @48812 has 24 MA's), (9, 48770), (15, 48734),

Gene: Anthony\_85 Start: 49128, Stop: 48943, Start Num: 8

Candidate Starts for Anthony\_85:  
(Start: 8 @49128 has 1 MA's), (11, 49068), (15, 49050), (17, 48966),

Gene: Battleship\_93 Start: 48073, Stop: 47903, Start Num: 7  
Candidate Starts for Battleship\_93:  
(Start: 7 @48073 has 24 MA's), (13, 48004), (15, 47995),

Gene: Boohoo\_89 Start: 47377, Stop: 47207, Start Num: 7  
Candidate Starts for Boohoo\_89:  
(1, 47479), (Start: 7 @47377 has 24 MA's), (13, 47308), (15, 47299),

Gene: BrutonGaster\_162 Start: 87427, Stop: 87236, Start Num: 5  
Candidate Starts for BrutonGaster\_162:  
(Start: 5 @87427 has 2 MA's), (6, 87421), (10, 87355), (12, 87343),

Gene: DekHockey33\_92 Start: 48158, Stop: 47988, Start Num: 7  
Candidate Starts for DekHockey33\_92:  
(Start: 7 @48158 has 24 MA's), (13, 48089), (15, 48080),

Gene: Elle\_88 Start: 47502, Stop: 47332, Start Num: 7  
Candidate Starts for Elle\_88:  
(Start: 7 @47502 has 24 MA's), (15, 47424), (16, 47418),

Gene: Epsocamisio\_88 Start: 47726, Stop: 47556, Start Num: 7  
Candidate Starts for Epsocamisio\_88:  
(Start: 7 @47726 has 24 MA's), (13, 47657), (15, 47648),

Gene: JSwag\_90 Start: 47575, Stop: 47405, Start Num: 7  
Candidate Starts for JSwag\_90:  
(1, 47677), (Start: 7 @47575 has 24 MA's), (13, 47506), (15, 47497),

Gene: KatherineG\_89 Start: 47712, Stop: 47542, Start Num: 7  
Candidate Starts for KatherineG\_89:  
(2, 47799), (Start: 7 @47712 has 24 MA's), (13, 47643), (15, 47634),

Gene: LastResort\_88 Start: 47818, Stop: 47648, Start Num: 7  
Candidate Starts for LastResort\_88:  
(1, 47920), (Start: 7 @47818 has 24 MA's), (13, 47749), (15, 47740),

Gene: Looper\_87 Start: 46694, Stop: 46524, Start Num: 7  
Candidate Starts for Looper\_87:  
(Start: 7 @46694 has 24 MA's), (13, 46625), (15, 46616),

Gene: MinecraftSteve\_91 Start: 47869, Stop: 47699, Start Num: 7  
Candidate Starts for MinecraftSteve\_91:  
(Start: 7 @47869 has 24 MA's), (13, 47800), (15, 47791),

Gene: Nebulosus\_87 Start: 47375, Stop: 47205, Start Num: 7  
Candidate Starts for Nebulosus\_87:  
(1, 47477), (Start: 7 @47375 has 24 MA's), (13, 47306), (15, 47297),

Gene: Nedarya\_87 Start: 48102, Stop: 47932, Start Num: 7  
Candidate Starts for Nedarya\_87:

(Start: 7 @48102 has 24 MA's), (13, 48033), (15, 48024), (18, 47943),

Gene: OneUp\_166 Start: 90548, Stop: 90357, Start Num: 5

Candidate Starts for OneUp\_166:

(3, 90590), (4, 90584), (Start: 5 @90548 has 2 MA's), (6, 90542), (10, 90476), (12, 90464), (13, 90461), (14, 90455),

Gene: Oofda\_90 Start: 48131, Stop: 47961, Start Num: 7

Candidate Starts for Oofda\_90:

(Start: 7 @48131 has 24 MA's), (13, 48062), (15, 48053),

Gene: Ravana\_89 Start: 48266, Stop: 48096, Start Num: 7

Candidate Starts for Ravana\_89:

(Start: 7 @48266 has 24 MA's), (13, 48197), (15, 48188),

Gene: ReMo\_88 Start: 47800, Stop: 47630, Start Num: 7

Candidate Starts for ReMo\_88:

(Start: 7 @47800 has 24 MA's), (13, 47731), (15, 47722),

Gene: Remus\_91 Start: 48166, Stop: 47996, Start Num: 7

Candidate Starts for Remus\_91:

(Start: 7 @48166 has 24 MA's), (13, 48097), (15, 48088),

Gene: Rosalind\_89 Start: 47478, Stop: 47308, Start Num: 7

Candidate Starts for Rosalind\_89:

(Start: 7 @47478 has 24 MA's), (13, 47409), (15, 47400),

Gene: ShayRa\_88 Start: 46432, Stop: 46262, Start Num: 7

Candidate Starts for ShayRa\_88:

(Start: 7 @46432 has 24 MA's), (13, 46363), (15, 46354),

Gene: Soups\_90 Start: 47955, Stop: 47785, Start Num: 7

Candidate Starts for Soups\_90:

(Start: 7 @47955 has 24 MA's), (13, 47886), (15, 47877),

Gene: Strosahl\_91 Start: 48166, Stop: 47996, Start Num: 7

Candidate Starts for Strosahl\_91:

(Start: 7 @48166 has 24 MA's), (13, 48097), (15, 48088),

Gene: Switzerland\_88 Start: 47401, Stop: 47231, Start Num: 7

Candidate Starts for Switzerland\_88:

(Start: 7 @47401 has 24 MA's), (13, 47332), (15, 47323),

Gene: Waits\_90 Start: 47788, Stop: 47618, Start Num: 7

Candidate Starts for Waits\_90:

(Start: 7 @47788 has 24 MA's), (13, 47719), (15, 47710),

Gene: Warrior24\_91 Start: 48587, Stop: 48417, Start Num: 7

Candidate Starts for Warrior24\_91:

(Start: 7 @48587 has 24 MA's), (15, 48509),