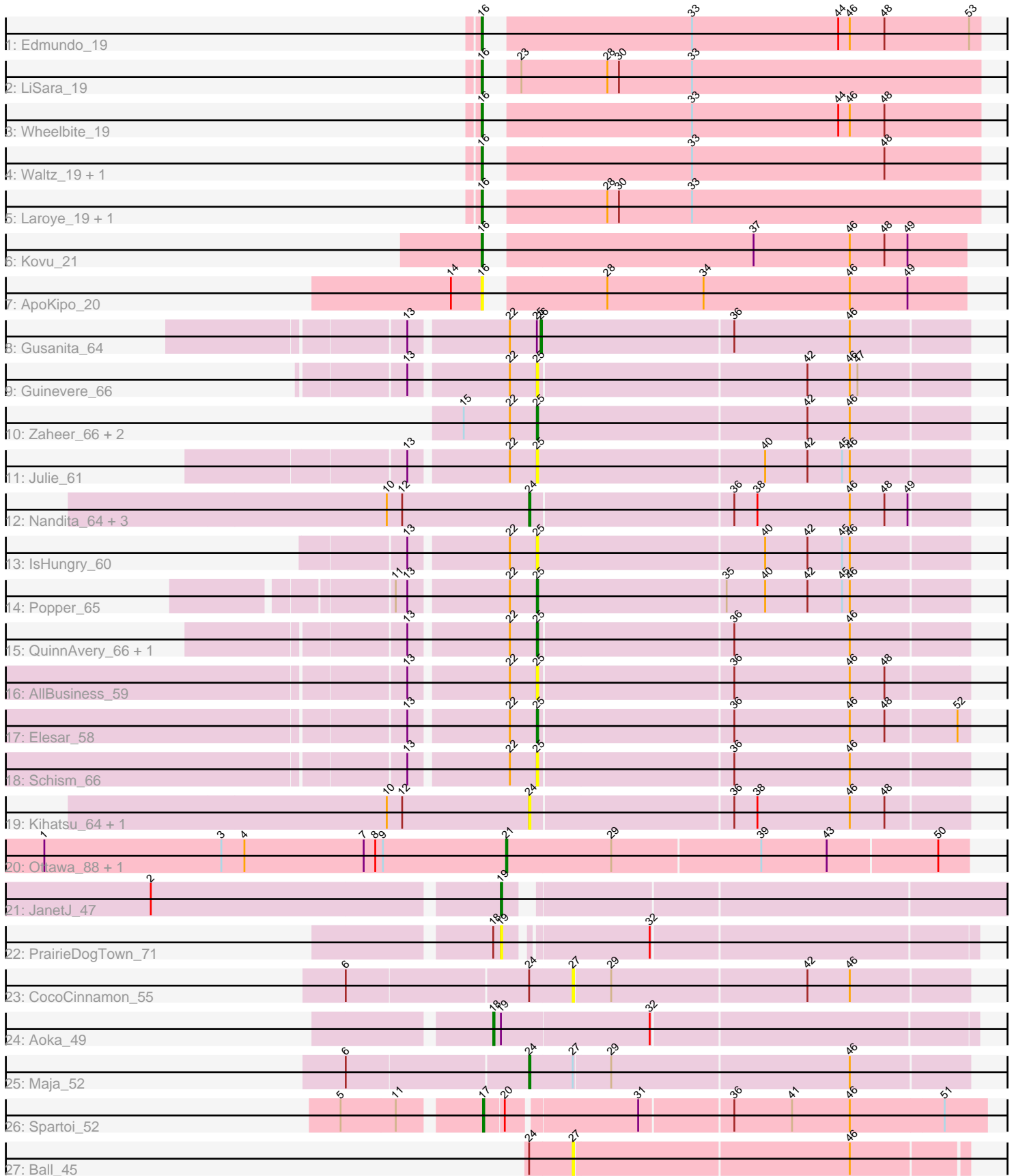


# Pham 216356



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 216356 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216356 has 37 members, 15 are drafts.

Phages represented in each track:

- Track 1 : Edmundo\_19
- Track 2 : LiSara\_19
- Track 3 : Wheelbite\_19
- Track 4 : Waltz\_19, Shrooms\_19
- Track 5 : Laroye\_19, Salgado\_19
- Track 6 : Kovu\_21
- Track 7 : ApoKipo\_20
- Track 8 : Gusanita\_64
- Track 9 : Guinevere\_66
- Track 10 : Zaheer\_66, GoodLuckBabe\_65, Halloweekend\_58
- Track 11 : Julie\_61
- Track 12 : Nandita\_64, Ichiang\_60, Donatella\_64, Ryan\_65
- Track 13 : IsHungry\_60
- Track 14 : Popper\_65
- Track 15 : QuinnAvery\_66, Cole\_60
- Track 16 : AllBusiness\_59
- Track 17 : Elesar\_58
- Track 18 : Schism\_66
- Track 19 : Kihatsu\_64, Lenoxika\_61
- Track 20 : Ottawa\_88, Kharcho\_88
- Track 21 : JanetJ\_47
- Track 22 : PrairieDogTown\_71
- Track 23 : CocoCinnamon\_55
- Track 24 : Aoka\_49
- Track 25 : Maja\_52
- Track 26 : Spartoi\_52
- Track 27 : Ball\_45

### ***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 8 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ApoKipo\_20, Edmundo\_19, Kovu\_21, Laroye\_19, LiSara\_19, Salgado\_19, Shrooms\_19, Waltz\_19, Wheelbite\_19,

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

- 

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

- AllBusiness\_59, Aoka\_49, Ball\_45, CocoCinnamon\_55, Cole\_60, Donatella\_64, Elesar\_58, GoodLuckBabe\_65, Guinevere\_66, Gusanita\_64, Halloweekend\_58, Ichiang\_60, IsHungry\_60, JanetJ\_47, Julie\_61, Kharcho\_88, Kihatsu\_64, Lenoxika\_61, Maja\_52, Nandita\_64, Ottawa\_88, Popper\_65, PrairieDogTown\_71, QuinnAvery\_66, Ryan\_65, Schism\_66, Spartoi\_52, Zaheer\_66,

### Summary by start number:

Start 16:

- Found in 9 of 37 ( 24.3% ) of genes in pham
- Manual Annotations of this start: 8 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ApoKipo\_20 (AL), Edmundo\_19 (AL), Kovu\_21 (AL), Laroye\_19 (AL), LiSara\_19 (AL), Salgado\_19 (AL), Shrooms\_19 (AL), Waltz\_19 (AL), Wheelbite\_19 (AL),

Start 17:

- Found in 1 of 37 ( 2.7% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Spartoi\_52 (singleton),

Start 18:

- Found in 2 of 37 ( 5.4% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Aoka\_49 (FO),

Start 19:

- Found in 3 of 37 ( 8.1% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 66.7% of time when present
- Phage (with cluster) where this start called: JanetJ\_47 (FO), PrairieDogTown\_71 (FO),

Start 21:

- Found in 2 of 37 ( 5.4% ) of genes in pham
- Manual Annotations of this start: 2 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kharcho\_88 (FM), Ottawa\_88 (FM),

Start 24:

- Found in 9 of 37 ( 24.3% ) of genes in pham
- Manual Annotations of this start: 3 of 22
- Called 77.8% of time when present

- Phage (with cluster) where this start called: Donatella\_64 (FF), Ichiang\_60 (FF), Kihatsu\_64 (FF), Lenoxika\_61 (FF), Maja\_52 (FO), Nandita\_64 (FF), Ryan\_65 (FF),

#### Start 25:

- Found in 13 of 37 ( 35.1% ) of genes in pham
- Manual Annotations of this start: 5 of 22
- Called 92.3% of time when present
- Phage (with cluster) where this start called: AllBusiness\_59 (FF), Cole\_60 (FF), Elesar\_58 (FF), GoodLuckBabe\_65 (FF), Guinevere\_66 (FF), Halloweekend\_58 (FF), IsHungry\_60 (FF), Julie\_61 (FF), Popper\_65 (FF), QuinnAvery\_66 (FF), Schism\_66 (FF), Zaheer\_66 (FF),

#### Start 26:

- Found in 1 of 37 ( 2.7% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gusanita\_64 (FF),

#### Start 27:

- Found in 3 of 37 ( 8.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Ball\_45 (singleton), CocoCinnamon\_55 (FO),

### **Summary by clusters:**

There are 5 clusters represented in this pham: singleton, FM, AL, FF, FO,

Info for manual annotations of cluster AL:

- Start number 16 was manually annotated 8 times for cluster AL.

Info for manual annotations of cluster FF:

- Start number 24 was manually annotated 2 times for cluster FF.
- Start number 25 was manually annotated 5 times for cluster FF.
- Start number 26 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster FM:

- Start number 21 was manually annotated 2 times for cluster FM.

Info for manual annotations of cluster FO:

- Start number 18 was manually annotated 1 time for cluster FO.
- Start number 19 was manually annotated 1 time for cluster FO.
- Start number 24 was manually annotated 1 time for cluster FO.

### **Gene Information:**

Gene: AllBusiness\_59 Start: 40667, Stop: 40993, Start Num: 25

Candidate Starts for AllBusiness\_59:

(13, 40574), (22, 40646), (Start: 25 @40667 has 5 MA's), (36, 40814), (46, 40904), (48, 40931),

Gene: Aoka\_49 Start: 33639, Stop: 34004, Start Num: 18  
Candidate Starts for Aoka\_49:  
(Start: 18 @33639 has 1 MA's), (Start: 19 @33645 has 1 MA's), (32, 33759),

Gene: ApoKipo\_20 Start: 15050, Stop: 15406, Start Num: 16  
Candidate Starts for ApoKipo\_20:  
(14, 15026), (Start: 16 @15050 has 8 MA's), (28, 15128), (34, 15203), (46, 15317), (49, 15362),

Gene: Ball\_45 Start: 32713, Stop: 33009, Start Num: 27  
Candidate Starts for Ball\_45:  
(Start: 24 @32680 has 3 MA's), (27, 32713), (46, 32923),

Gene: CocoCinnamon\_55 Start: 33938, Stop: 34237, Start Num: 27  
Candidate Starts for CocoCinnamon\_55:  
(6, 33767), (Start: 24 @33905 has 3 MA's), (27, 33938), (29, 33965), (42, 34115), (46, 34148),

Gene: Cole\_60 Start: 39459, Stop: 39785, Start Num: 25  
Candidate Starts for Cole\_60:  
(13, 39366), (22, 39438), (Start: 25 @39459 has 5 MA's), (36, 39606), (46, 39696),

Gene: Donatella\_64 Start: 40075, Stop: 40407, Start Num: 24  
Candidate Starts for Donatella\_64:  
(10, 39964), (12, 39976), (Start: 24 @40075 has 3 MA's), (36, 40228), (38, 40246), (46, 40318), (48, 40345), (49, 40363),

Gene: Edmundo\_19 Start: 15771, Stop: 16139, Start Num: 16  
Candidate Starts for Edmundo\_19:  
(Start: 16 @15771 has 8 MA's), (33, 15915), (44, 16029), (46, 16038), (48, 16065), (53, 16131),

Gene: Elesar\_58 Start: 40564, Stop: 40890, Start Num: 25  
Candidate Starts for Elesar\_58:  
(13, 40471), (22, 40543), (Start: 25 @40564 has 5 MA's), (36, 40711), (46, 40801), (48, 40828), (52, 40882),

Gene: GoodLuckBabe\_65 Start: 39957, Stop: 40286, Start Num: 25  
Candidate Starts for GoodLuckBabe\_65:  
(15, 39900), (22, 39936), (Start: 25 @39957 has 5 MA's), (42, 40164), (46, 40197),

Gene: Guinevere\_66 Start: 40033, Stop: 40359, Start Num: 25  
Candidate Starts for Guinevere\_66:  
(13, 39940), (22, 40012), (Start: 25 @40033 has 5 MA's), (42, 40237), (46, 40270), (47, 40276),

Gene: Gusanita\_64 Start: 40269, Stop: 40595, Start Num: 26  
Candidate Starts for Gusanita\_64:  
(13, 40173), (22, 40245), (Start: 25 @40266 has 5 MA's), (Start: 26 @40269 has 1 MA's), (36, 40416), (46, 40506),

Gene: Halloweekend\_58 Start: 39548, Stop: 39877, Start Num: 25  
Candidate Starts for Halloweekend\_58:  
(15, 39491), (22, 39527), (Start: 25 @39548 has 5 MA's), (42, 39755), (46, 39788),

Gene: Ichiang\_60 Start: 39435, Stop: 39767, Start Num: 24  
Candidate Starts for Ichiang\_60:

(10, 39324), (12, 39336), (Start: 24 @39435 has 3 MA's), (36, 39588), (38, 39606), (46, 39678), (48, 39705), (49, 39723),

Gene: IsHungry\_60 Start: 38345, Stop: 38674, Start Num: 25

Candidate Starts for IsHungry\_60:

(13, 38252), (22, 38324), (Start: 25 @38345 has 5 MA's), (40, 38519), (42, 38552), (45, 38579), (46, 38585),

Gene: JanetJ\_47 Start: 34159, Stop: 34539, Start Num: 19

Candidate Starts for JanetJ\_47:

(2, 33907), (Start: 19 @34159 has 1 MA's),

Gene: Julie\_61 Start: 39974, Stop: 40303, Start Num: 25

Candidate Starts for Julie\_61:

(13, 39881), (22, 39953), (Start: 25 @39974 has 5 MA's), (40, 40148), (42, 40181), (45, 40208), (46, 40214),

Gene: Kharcho\_88 Start: 54056, Stop: 54409, Start Num: 21

Candidate Starts for Kharcho\_88:

(1, 53696), (3, 53834), (4, 53852), (7, 53945), (8, 53954), (9, 53960), (Start: 21 @54056 has 2 MA's), (29, 54137), (39, 54251), (43, 54302), (50, 54386),

Gene: Kihatsu\_64 Start: 40983, Stop: 41315, Start Num: 24

Candidate Starts for Kihatsu\_64:

(10, 40872), (12, 40884), (Start: 24 @40983 has 3 MA's), (36, 41136), (38, 41154), (46, 41226), (48, 41253),

Gene: Kovu\_21 Start: 15137, Stop: 15493, Start Num: 16

Candidate Starts for Kovu\_21:

(Start: 16 @15137 has 8 MA's), (37, 15329), (46, 15404), (48, 15431), (49, 15449),

Gene: Laroye\_19 Start: 15483, Stop: 15851, Start Num: 16

Candidate Starts for Laroye\_19:

(Start: 16 @15483 has 8 MA's), (28, 15561), (30, 15570), (33, 15627),

Gene: Lenoxika\_61 Start: 39310, Stop: 39642, Start Num: 24

Candidate Starts for Lenoxika\_61:

(10, 39199), (12, 39211), (Start: 24 @39310 has 3 MA's), (36, 39463), (38, 39481), (46, 39553), (48, 39580),

Gene: LiSara\_19 Start: 15538, Stop: 15906, Start Num: 16

Candidate Starts for LiSara\_19:

(Start: 16 @15538 has 8 MA's), (23, 15550), (28, 15616), (30, 15625), (33, 15682),

Gene: Maja\_52 Start: 34530, Stop: 34862, Start Num: 24

Candidate Starts for Maja\_52:

(6, 34392), (Start: 24 @34530 has 3 MA's), (27, 34563), (29, 34590), (46, 34773),

Gene: Nandita\_64 Start: 39997, Stop: 40329, Start Num: 24

Candidate Starts for Nandita\_64:

(10, 39886), (12, 39898), (Start: 24 @39997 has 3 MA's), (36, 40150), (38, 40168), (46, 40240), (48, 40267), (49, 40285),

Gene: Ottawa\_88 Start: 54006, Stop: 54359, Start Num: 21  
Candidate Starts for Ottawa\_88:  
(1, 53646), (3, 53784), (4, 53802), (7, 53895), (8, 53904), (9, 53910), (Start: 21 @54006 has 2 MA's),  
(29, 54087), (39, 54201), (43, 54252), (50, 54336),

Gene: Popper\_65 Start: 39567, Stop: 39896, Start Num: 25  
Candidate Starts for Popper\_65:  
(11, 39465), (13, 39474), (22, 39546), (Start: 25 @39567 has 5 MA's), (35, 39711), (40, 39741), (42,  
39774), (45, 39801), (46, 39807),

Gene: PrairieDogTown\_71 Start: 33019, Stop: 33366, Start Num: 19  
Candidate Starts for PrairieDogTown\_71:  
(Start: 18 @33013 has 1 MA's), (Start: 19 @33019 has 1 MA's), (32, 33121),

Gene: QuinnAvery\_66 Start: 40918, Stop: 41244, Start Num: 25  
Candidate Starts for QuinnAvery\_66:  
(13, 40825), (22, 40897), (Start: 25 @40918 has 5 MA's), (36, 41065), (46, 41155),

Gene: Ryan\_65 Start: 40550, Stop: 40882, Start Num: 24  
Candidate Starts for Ryan\_65:  
(10, 40439), (12, 40451), (Start: 24 @40550 has 3 MA's), (36, 40703), (38, 40721), (46, 40793), (48,  
40820), (49, 40838),

Gene: Salgado\_19 Start: 15491, Stop: 15859, Start Num: 16  
Candidate Starts for Salgado\_19:  
(Start: 16 @15491 has 8 MA's), (28, 15569), (30, 15578), (33, 15635),

Gene: Schism\_66 Start: 40995, Stop: 41321, Start Num: 25  
Candidate Starts for Schism\_66:  
(13, 40902), (22, 40974), (Start: 25 @40995 has 5 MA's), (36, 41142), (46, 41232),

Gene: Shrooms\_19 Start: 15569, Stop: 15937, Start Num: 16  
Candidate Starts for Shrooms\_19:  
(Start: 16 @15569 has 8 MA's), (33, 15713), (48, 15863),

Gene: Spartoi\_52 Start: 33444, Stop: 33818, Start Num: 17  
Candidate Starts for Spartoi\_52:  
(5, 33345), (11, 33387), (Start: 17 @33444 has 1 MA's), (20, 33459), (31, 33555), (36, 33624), (41,  
33669), (46, 33714), (51, 33786),

Gene: Waltz\_19 Start: 15631, Stop: 15999, Start Num: 16  
Candidate Starts for Waltz\_19:  
(Start: 16 @15631 has 8 MA's), (33, 15775), (48, 15925),

Gene: Wheelbite\_19 Start: 15612, Stop: 15980, Start Num: 16  
Candidate Starts for Wheelbite\_19:  
(Start: 16 @15612 has 8 MA's), (33, 15756), (44, 15870), (46, 15879), (48, 15906),

Gene: Zaheer\_66 Start: 40976, Stop: 41305, Start Num: 25  
Candidate Starts for Zaheer\_66:  
(15, 40919), (22, 40955), (Start: 25 @40976 has 5 MA's), (42, 41183), (46, 41216),